

Hisense

SPLIT TYPE AIR CONDITIONER

SERVICE MANUAL

ADM-24UX4SGKA

Hisense Corporation

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1. OPERATING RANGE

ADM-24UXR4SGKA

	Temperature	Indoor Air Intake Temp.			Outdoor Air Intake Temp		
COOLING	Maximum	32	D.B./23	W.B.	43	D.B./26	W.B.
	Minimum	21	D.B./15	W.B.	21	D.B./15	W.B.
HEATING	Maximum	27	D.B./18	W.B.	24	D.B./18	W.B.
	Minimum	20	D.B./	15 W.B	-7	D.B./-8	W.B.

2. SPECIFICATIONS

ADM-24UX4SGKA

2-1. Unit specifications

Model				ADM-24UX4SGKA	
Function				Cooling	Heating
Power supply				a.c 220-230V/50Hz	
Capacity	Capacity		kW	7.0	8.0
	Dehumidification		L /h	3.0	— -
	Air flow		m³/h	1100	1250
Electrical data	Rated current		A	10.8	11.6
	MAX. current		A	16.6	17.2
	Rated input		kW	2.3	2.5
	MAX. input		kW	3.2	3.3
EER/COP				3.04	3.2
MAX.operating pressure	High		MPa	4.15	
Net size	Indoor unit	L × W × H	cm	116 × 25 × 58	
	Outdoor unit	L × W × H	cm	95 × 34 × 84	
Package size	Indoor unit	L × W × H	cm	147 × 38 × 77	
	Outdoor unit	L × W × H	cm	112 × 46 × 98	
Net weight	Indoor unit / Outdoor unit		kg	39.5/62.5	
Gross weight	Indoor unit / Outdoor unit		kg	51/72	
Refrigerant piping	Liquid pipe		mm	9.52	
	Gas pipe		mm	15.88	
	Connection method			Flared	
Special remarks	Sound level (Hi)	Indoor unit	dB (A)	47	
		Outdoor unit	dB (A)	58	
	Fan speed (Hi)	Indoor unit	rpm	1080	
		Outdoor unit	rpm	840	
	Fan speed regulator	Indoor unit		3	
		Outdoor unit		2	
	Refrigerant filling capacity(R410a)		kg	2.1	
	Throttle mode			CAPILLARY	

NOTE :

(1)Test conditions :

Cooling : Indoor: DB27 / WB19 Outdoor: DB35 / WB24

Heating: Indoor: DB20 / WB15 Outdoor: DB7 / WB 6

(2)External static pressure : 70Pa

2. SPECIFICATIONS

ADM-24UX4SGKA

2-2. Major component specifications

2-2-1.INDOOR FAN MOTOR

ELECTRIC PERFORMANCE	PARAMETER
Motor model	YYW28-4-2085
Rated power source	220-230V
Phases/Poles	1/4
Rated load output(W)	100
Rated speed(r/min)	1080/930/850 \pm 40
Ambient temperature()	-5 ~ +43 .

2-2-2 .OUTDOOR FAN MOTOR

ELECTRIC PERFORMANCE	PARAMETER
Motor model	YDK70-6H-3
Rated power source	220-230V
Phases /Poles	1/6
Rated load output(W)	65
Ambient temperature()	-10 ~ +55 .

2-2-3. COMPRESSOR

ELECTRIC PERFORMANCE		PARAMETER
Compressor model		TNB175FLBM1
Compressor type		Rotary
Rated power		1825W
Current (A)		8.3
Motor	Motor type	Rolling piston type rotary
	Winding resistance (20)	0.88
Number of cylinder		2
Oil type		MEL56
Oil charge (cm ³)		670

2. SPECIFICATIONS

ADM-24UX4SGKA

2-3. Other component specifications

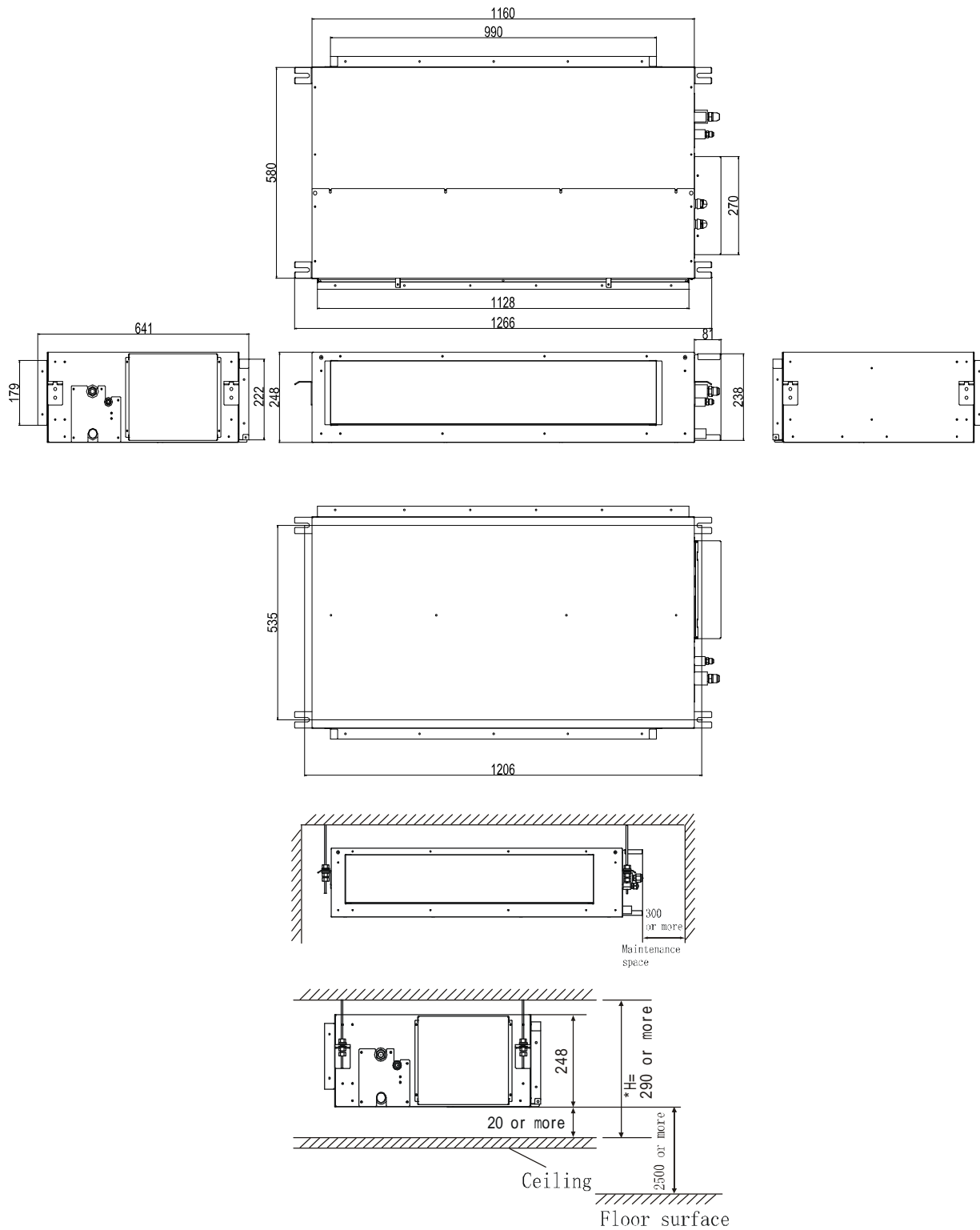
2-3-1. INDUCTANCE(-069-)

ELECTRIC PERFORMANCE	PARAMETER
Inductance model	R2550HS
Rated power source	220V 50Hz
Rated current(A)	25
Rated inductance(mH)	$5.0 \pm 10\%$
Ambient temperature()	-20 ~ +70 .

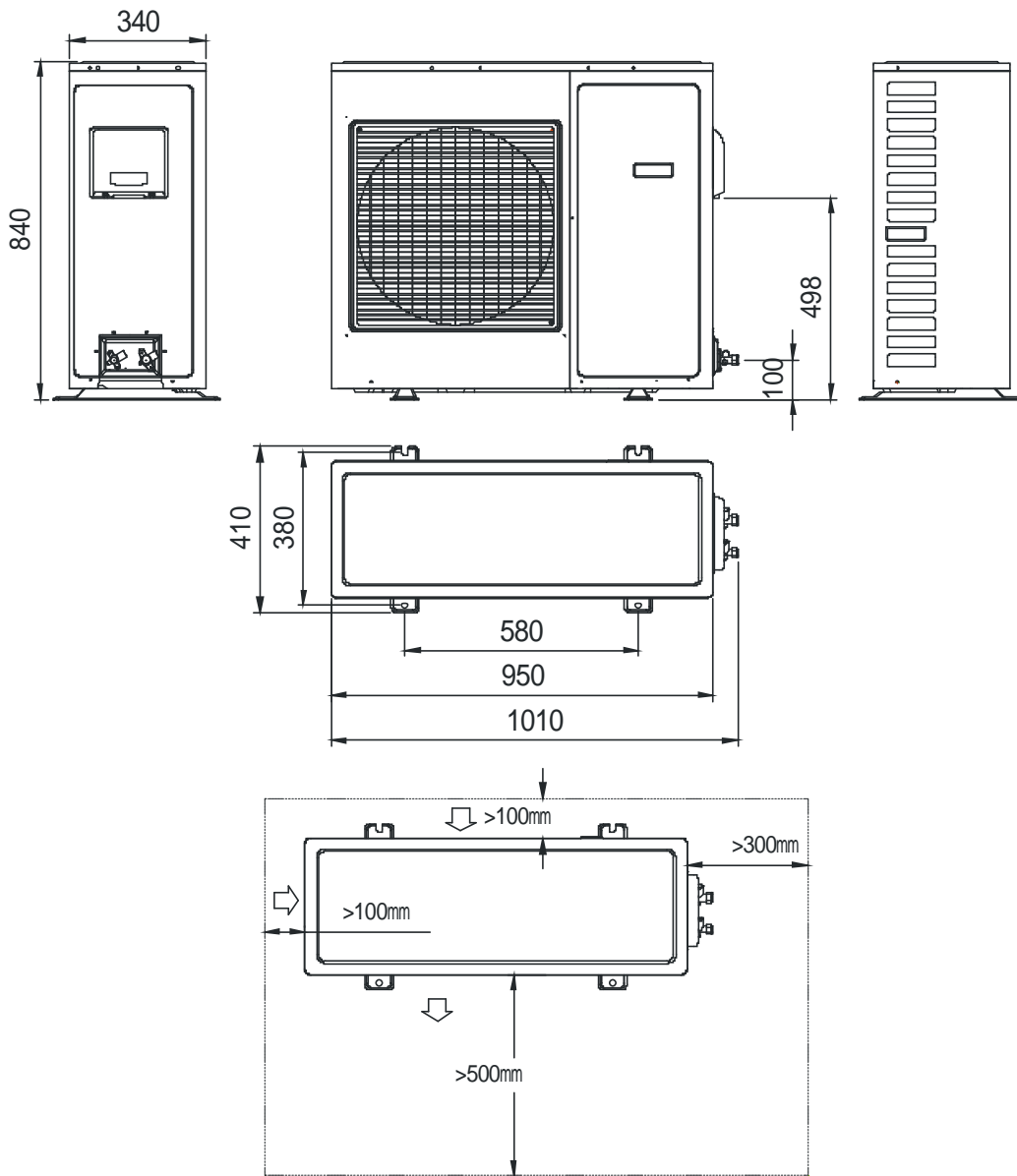
2-3-2. FILTER(-017-)

ELECTRIC PERFORMANCE	PARAMETER
Filter model	ESFQ-20TO47-03
Rated current(A)	20
Rated power source	AC 220V 50Hz
Filter frequency range	150K—30MHz
Temperature range()	-25 ~ +85 .

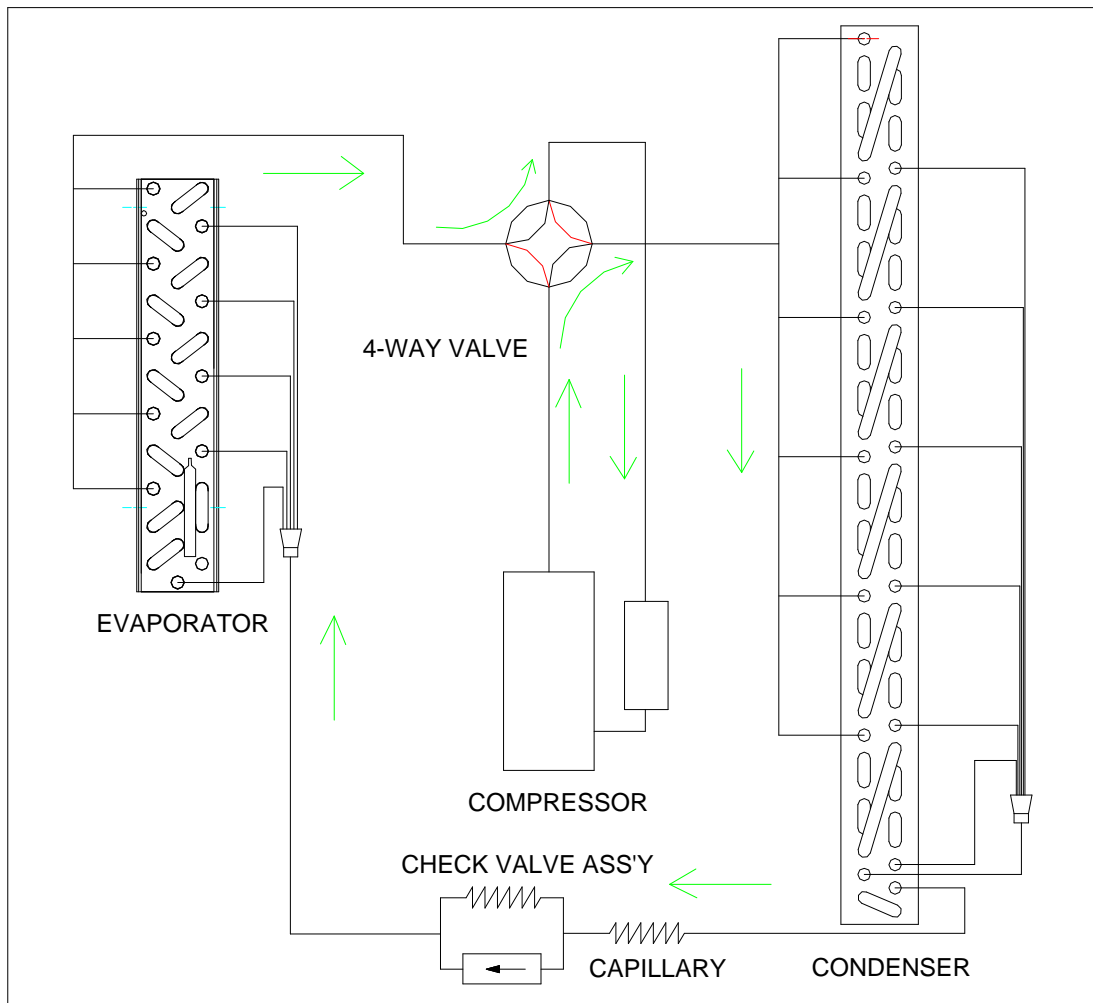
3-1. INDOOR



3-2.OUTDOOR

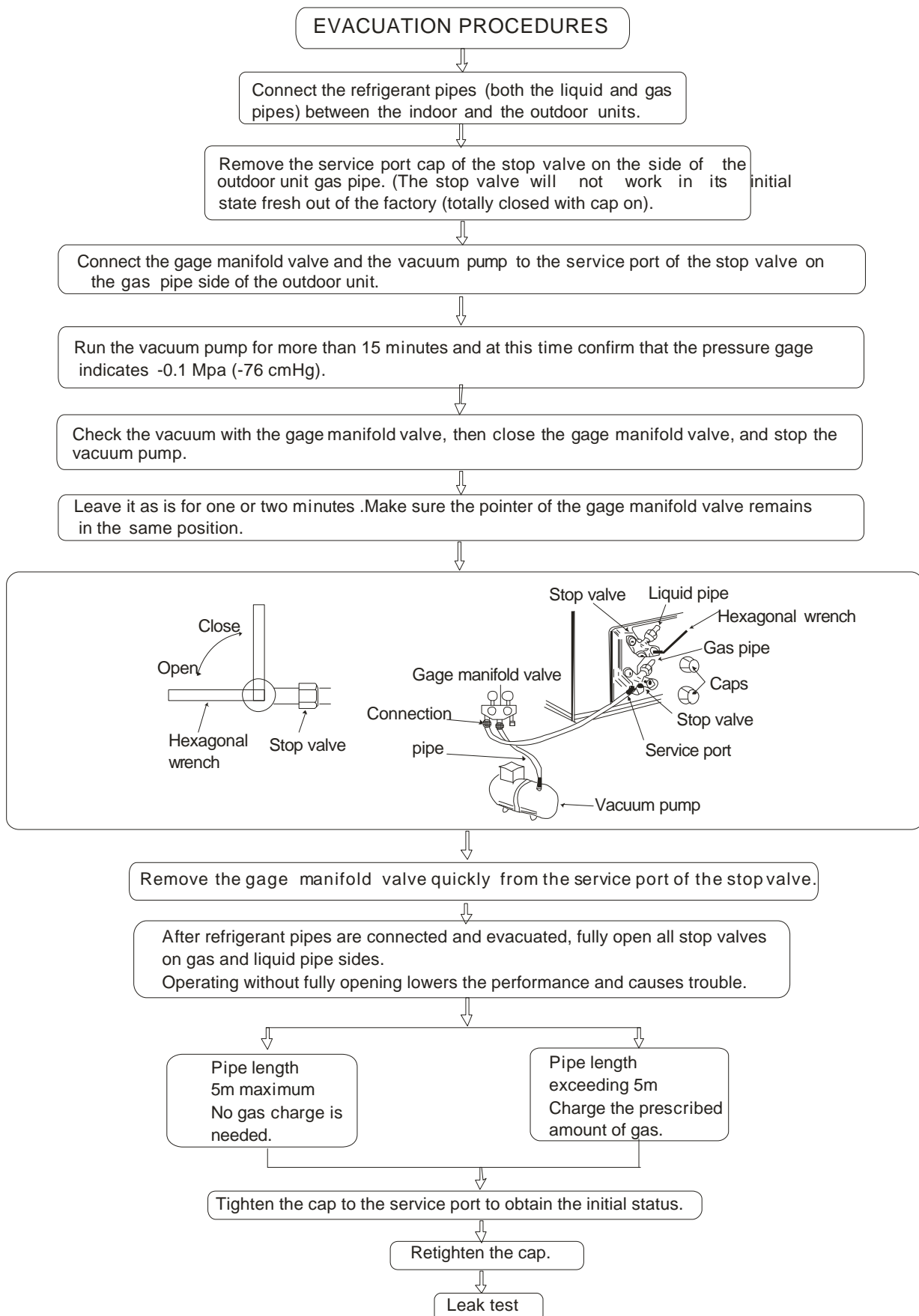


4-1. Refrigerant flow diagram :



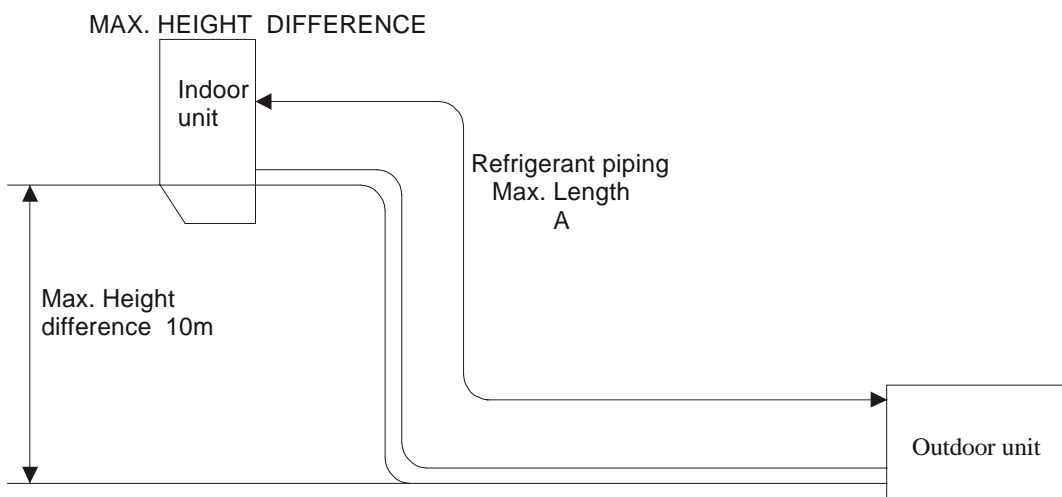
Remark :  **COOLING CYCLE**

4-2. Evacuation procedures :



4-3. Evacuation direction :
MAX. REFRIGERANT PIPING LENGTH

Models	Refrigerant Piping Max. Length: m A	Piping size (OD) : mm		Length of connecting pipe : m	
		Gas	Liquid	Indoor unit	Outdoor unit
ADM-24UX4SGKA	20	15.88	9.52		


ADDITIONAL: REFRIGERANT CHARGE(R-410A: g)

Models	Outdoor unit precharged (up to 7m)	Refrigerant piping Max .length (A)		
		5m	10m	20m
ADM-24UX4SGKA	2100	0	175	525

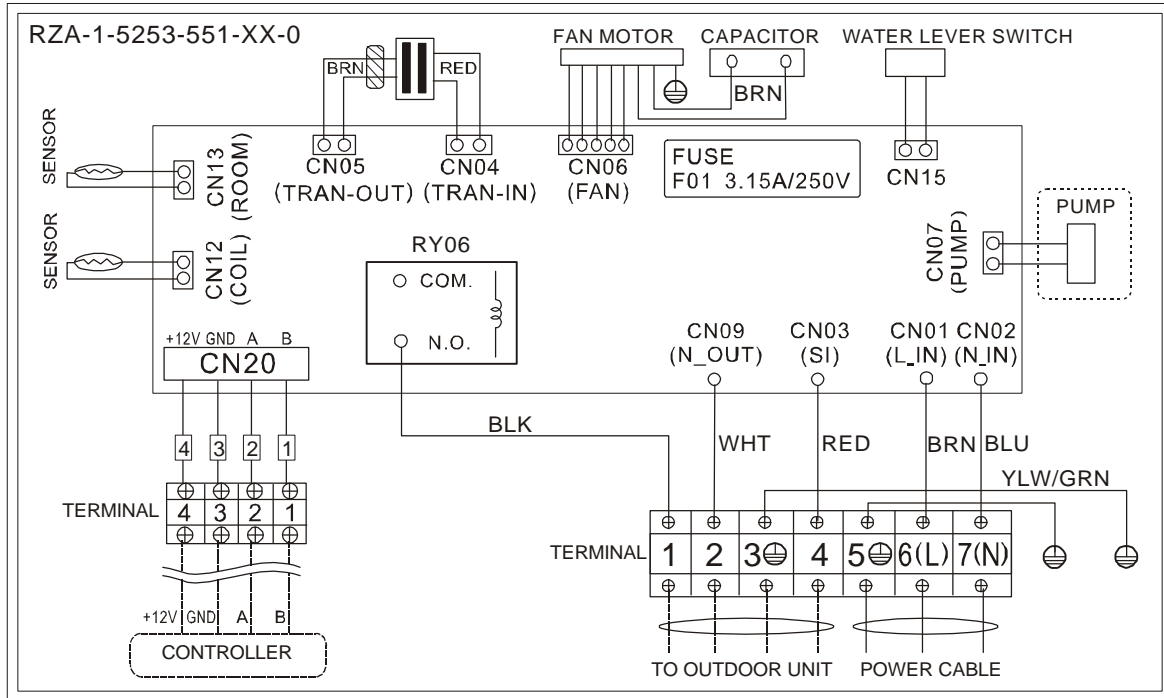
Calculation : $Xg=35g/m \cdot (A-5)m$

5. ELECTRICAL DATA

ADM-24UX4SGKA

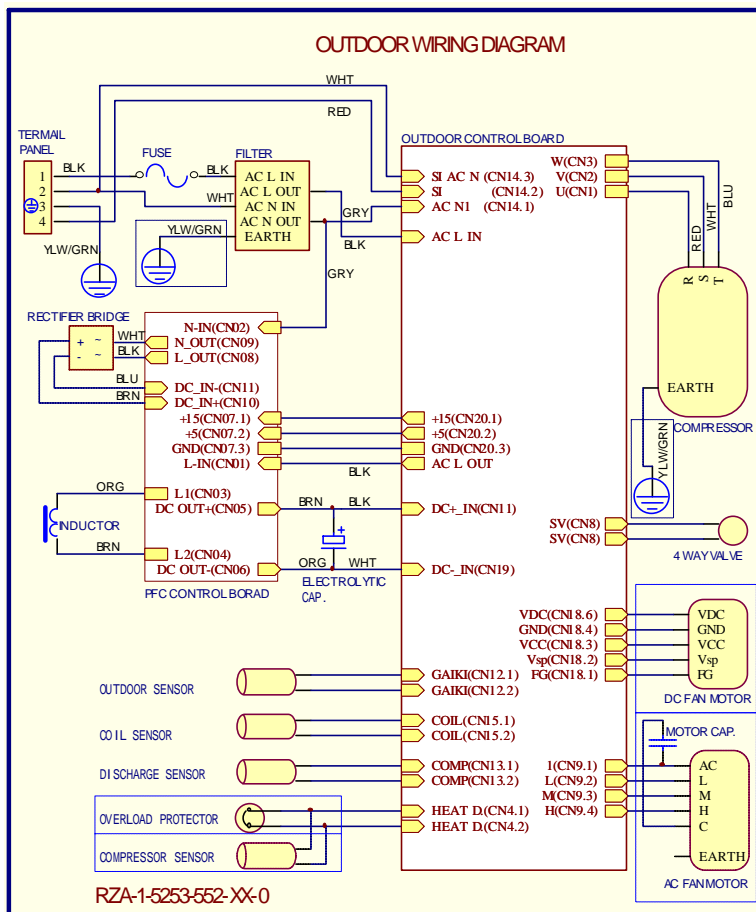
5-1. Electrical wiring diagrams

5-1-1. Indoor



5-

1-2. Outdoor

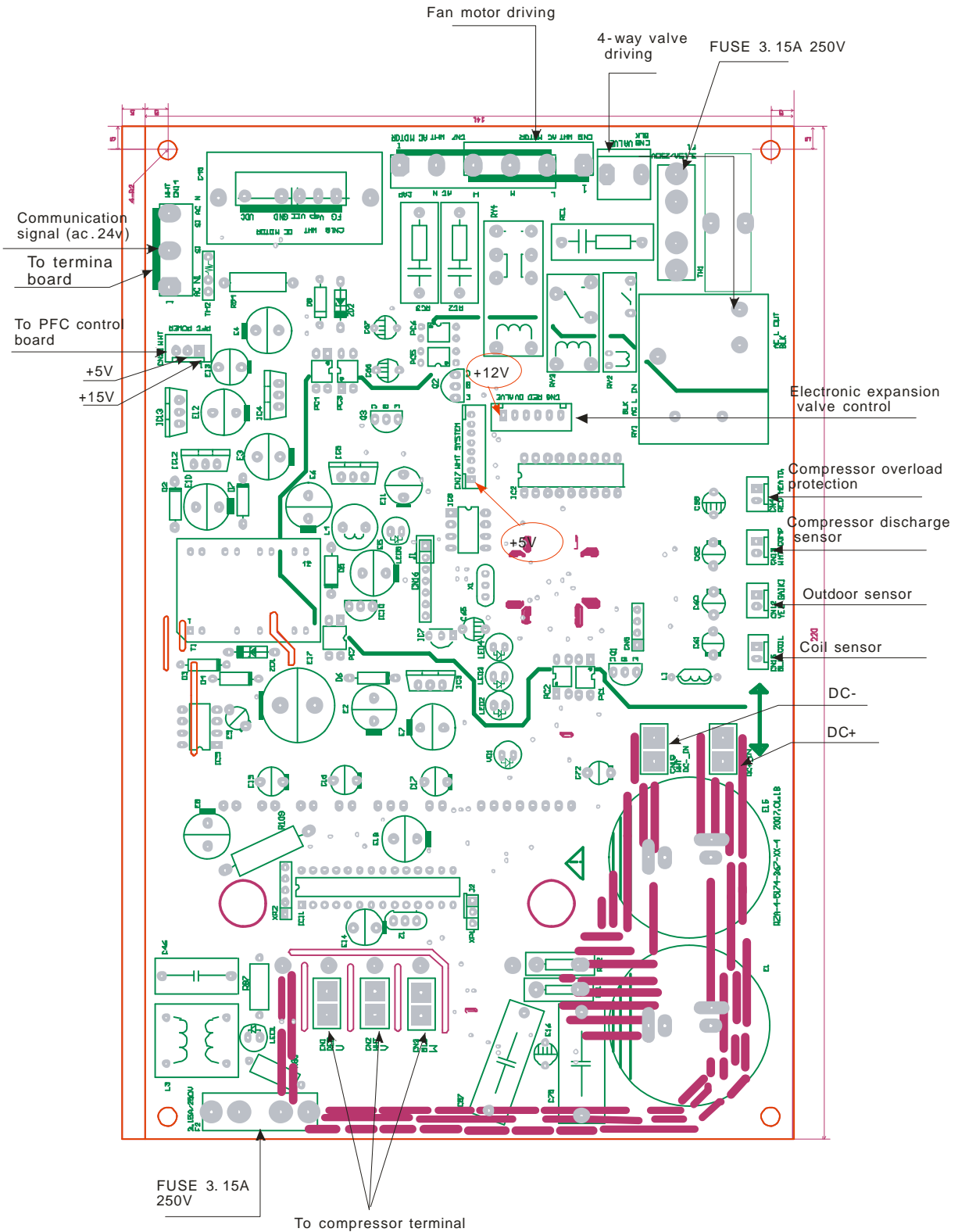


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5. ELECTRICAL DATA

ADM-24UX4SGKA

2.Outdoor control



5. ELECTRICAL DATA

ADM-24UX4SGKA

5-3 . SENSOR PARAMETER

5-3-1.INDOOR SENSOR PARAMETER

THE PARAMETER OF THE COIL SENSOR AND INDOOR AMBIENT SENSOR : ($R_0=15K\pm2\%$; $B=3450\pm2\%$)

T()	R(KO)	V(v)
-30	67.94	0.3235
-29	64.25	0.3408
-28	60.79	0.3588
-27	57.53	0.3776
-26	54.48	0.3971
-25	51.6	0.4174
-24	48.9	0.4384
-23	46.35	0.4603
-22	43.96	0.4829
-21	41.7	0.5065
-20	39.58	0.5307
-19	37.58	0.5558
-18	35.69	0.5818
-17	33.91	0.6087
-16	32.23	0.6363
-15	30.65	0.6648
-14	29.15	0.6942
-13	27.74	0.7244
-12	26.4	0.7556
-11	25.14	0.7875
-10	23.95	0.8202
-9	22.82	0.8539
-8	21.75	0.8885
-7	20.74	0.9237
-6	19.79	0.9596
-5	18.88	0.9966
-4	18.02	1.0343
-3	17.2	1.0731
-2	16.43	1.1122
-1	15.7	1.1520
0	15	1.1929
1	14.34	1.2342
2	13.71	1.2765
3	13.11	1.3195
4	12.55	1.3623
5	12.01	1.4063
6	11.5	1.4506
7	11.01	1.4959

T()	R(KO)	V(v)
8	10.55	1.5410
9	10.1	1.5878
10	9.684	1.6338
11	9.284	1.6805
12	8.903	1.7276
13	8.54	1.7749
14	8.194	1.8226
15	7.864	1.8704
16	7.549	1.9185
17	7.249	1.9667
18	6.962	2.0151
19	6.688	2.0636
20	6.427	2.1120
21	6.178	2.1603
22	5.939	2.2089
23	5.712	2.2570
24	5.494	2.3053
25	5.286	2.3533
26	5.086	2.4014
27	4.896	2.4489
28	4.714	2.4963
29	4.539	2.5436
30	4.372	2.5904
31	4.212	2.6369
32	4.059	2.6830
33	3.912	2.7288
34	3.772	2.7738
35	3.637	2.8188
36	3.508	2.8631
37	3.384	2.9070
38	3.265	2.9504
39	3.151	2.9932
40	3.041	3.0358
41	2.936	3.0775
42	2.835	3.1188
43	2.739	3.1590
44	2.646	3.1990
45	2.556	3.2387

T()	R(KO)	V(v)
46	2.471	3.2771
47	2.388	3.3155
48	2.309	3.3528
49	2.233	3.3896
50	2.159	3.4262
51	2.089	3.4615
52	2.021	3.4965
53	1.956	3.5306
54	1.893	3.5644
55	1.832	3.5977
56	1.774	3.6299
57	1.718	3.6616
58	1.664	3.6926
59	1.612	3.7231
60	1.562	3.7528
61	1.513	3.7824
62	1.467	3.8106
63	1.422	3.8386
64	1.379	3.8658
65	1.337	3.8927
66	1.297	3.9186
67	1.258	3.9443
68	1.22	3.9696
69	1.184	3.9939
70	1.149	4.0178
71	1.116	4.0406
72	1.083	4.0636
73	1.051	4.0862
74	1.021	4.1077
75	0.9914	4.1290
76	0.963	4.1497
77	0.9354	4.1701
78	0.9088	4.1898
79	0.8831	4.2091
80	0.8582	4.2280
81	0.8342	4.2463
82	0.8109	4.2643
83	0.7884	4.2818

T()	R(KO)	V(v)
84	0.7666	4.2988
85	0.7455	4.3155
86	0.725	4.3318
87	0.7053	4.3476
88	0.6861	4.3631
89	0.6676	4.3781
90	0.6496	4.3929
91	0.6323	4.4071
92	0.6156	4.4209
93	0.5993	4.4345
94	0.5836	4.4477
95	0.5683	4.4606
96	0.5535	4.4732
97	0.5391	4.4855
98	0.5251	4.4975
99	0.5115	4.5093
100	0.4983	4.5207
101	0.4855	4.5319
102	0.4731	4.5427
103	0.461	4.5534
104	0.4492	4.5638
105	0.4378	4.5739
106	0.4268	4.5838
107	0.416	4.5934
108	0.4055	4.6029
109	0.3953	4.6121
110	0.3854	4.6211

5. ELECTRICAL DATA

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5-3-2.OUTDOOR SENSOR PARAMETER

1. THE PARAMETER OF THE COIL SENSOR AND OUTDOOR AMBIENT SENSOR : ($R_0=15K\pm2\%$; $B=3450\pm2\%$)

T()	R (K)	V(V)
-20	38.32	0.5859
-19	36.47	0.6152
-18	34.72	0.6396
-17	33.06	0.6689
-16	31.49	0.6982
-15	30	0.7275
-14	28.59	0.7568
-13	27.26	0.7861
-12	25.99	0.8203
-11	24.79	0.8545
-10	23.65	0.8887
-9	22.57	0.9229
-8	21.55	0.957
-7	20.57	0.9912
-6	19.65	1.0303
-5	18.77	1.0693
-4	17.94	1.1084
-3	17.15	1.1475
-2	16.4	1.1865
-1	15.68	1.2256
0	15	1.2695
1	14.35	1.3135
2	13.74	1.3525
3	13.15	1.3965
4	12.59	1.4404
5	12.06	1.4844
6	11.56	1.5283
7	11.07	1.5771

T()	R (K)	V(V)
8	10.62	1.6211
9	10.18	1.6699
10	9.761	1.7139
11	9.363	1.7627
12	8.984	1.8115
13	8.622	1.8604
14	8.276	1.9043
15	7.946	1.9531
16	7.632	2.002
17	7.331	2.0508
18	7.044	2.0996
19	6.769	2.1484
20	6.507	2.1973
21	6.256	2.2461
22	6.017	2.2949
23	5.788	2.3438
24	5.568	2.3926
25	5.359	2.4365
26	5.158	2.4854
27	4.966	2.5342
28	4.782	2.5781
29	4.606	2.627
30	4.437	2.6758
31	4.276	2.7197
32	4.121	2.7637
33	3.972	2.8125
34	3.83	2.8564
35	3.694	2.9004

T()	R (K)	V(V)
36	3.563	2.9443
37	3.437	2.9883
38	3.317	3.0273
39	3.201	3.0713
40	3.09	3.1152
41	2.984	3.1543
42	2.881	3.1934
43	2.783	3.2324
44	2.689	3.2715
45	2.598	3.3105
46	2.511	3.3496
47	2.427	3.3887
48	2.347	3.4229
49	2.269	3.4619
50	2.195	3.4961
51	2.126	3.5303
52	2.058	3.5645
53	1.992	3.5938
54	1.928	3.6279
55	1.867	3.6621
56	1.808	3.6914
57	1.751	3.7207
58	1.696	3.75
59	1.644	3.7793
60	1.593	3.8086
61	1.544	3.8379
62	1.497	3.8672
63	1.451	3.8916

T()	R (K)	V(V)
64	1.407	3.9209
65	1.365	3.9453
66	1.324	3.9697
67	1.284	3.9941
68	1.246	4.0186
69	1.209	4.043
70	1.174	4.0625
71	1.133	4.0918
72	1.1	4.1113
73	1.068	4.1357
74	1.037	4.1553
75	1.008	4.1748
76	0.979	4.1943
77	0.951	4.2139
78	0.924	4.2334
79	0.898	4.2529
80	0.873	4.2676

5. ELECTRICAL DATA

ADM-24UX4SGKA

2. THE PARAMETER OF OUTDOOR COMPRESSOR TEMPERATURE SENSOR:

($R_0=187.25K \pm 6.3\%$)

T()	R (K)	V(V)
-20	526.61	0.0635
-19	497.84	0.0684
-18	470.87	0.0732
-17	445.57	0.0732
-16	421.83	0.0781
-15	399.54	0.083
-14	378.61	0.0879
-13	358.96	0.0928
-12	340.48	0.0977
-11	323.11	0.1025
-10	306.77	0.1074
-9	291.4	0.1123
-8	276.92	0.1221
-7	263.29	0.127
-6	250.44	0.1318
-5	238.33	0.1367
-4	226.91	0.1465
-3	216.13	0.1514
-2	205.95	0.1611
-1	196.34	0.166
0	187.25	0.1758
1	178.66	0.1855
2	170.53	0.1904
3	162.84	0.2002
4	155.56	0.21
5	148.66	0.2197
6	142.12	0.2295
7	135.93	0.2393
8	130.03	0.249
9	124.45	0.2588
10	119.14	0.2686
11	114.1	0.2832
12	109.31	0.293
13	104.75	0.3027
14	100.42	0.3174
15	96.289	0.332

T()	R (K)	V(V)
16	92.358	0.3418
17	88.612	0.3564
18	85.042	0.3711
19	81.637	0.3857
20	78.388	0.4004
21	75.287	0.415
22	72.326	0.4297
23	69.498	0.4443
24	66.795	0.4639
25	64.21	0.4785
26	61.739	0.498
27	59.373	0.5127
28	57.11	0.5322
29	54.942	0.5518
30	52.866	0.5713
31	50.876	0.5908
32	48.939	0.6104
33	47.14	0.6299
34	45.386	0.6494
35	43.703	0.6738
36	42.087	0.6934
37	40.536	0.7178
38	39.047	0.7422
39	37.616	0.7666
40	36.24	0.791
41	34.919	0.8154
42	33.648	0.8398
43	32.426	0.8691
44	31.25	0.8936
45	30.119	0.9229
46	29.03	0.9473
47	27.982	0.9766
48	26.973	1.0059
49	26.001	1.0352
50	25.065	1.0693
51	24.163	1.0986

T()	R (K)	V(V)
52	23.295	1.1279
53	22.457	1.1621
54	21.65	1.1963
55	20.873	1.2305
56	20.123	1.2646
57	19.399	1.2988
58	18.702	1.333
59	18.029	1.3672
60	17.38	1.4063
61	16.754	1.4453
62	16.15	1.4795
63	15.568	1.5186
64	15.005	1.5576
65	14.463	1.5967
66	13.939	1.6406
67	13.433	1.6797
68	12.946	1.7236
69	12.475	1.7627
70	12.02	1.8066
71	11.581	1.8506
72	11.158	1.8945
73	10.749	1.9385
74	10.354	1.9824
75	9.9733	2.0264
76	9.6055	2.0703
77	9.2505	2.1191
78	8.9078	2.1631
79	8.577	2.2119
80	8.2577	2.2559
81	7.9495	2.3047
82	7.652	2.3535
83	7.3649	2.4023
84	7.0878	2.4463
85	6.8204	2.4951
86	6.5623	2.5439
87	6.3133	2.5928

T()	R (K)	V(V)
88	6.0731	2.6416
89	5.8413	2.6904
90	5.6177	2.7393
91	5.4018	2.7881
92	5.1939	2.8369
93	4.9932	2.8809
94	4.7997	2.9297
95	4.6131	2.9785
96	4.4331	3.0273
97	4.2596	3.0762
98	4.0924	3.1201
99	3.9312	3.1689
100	3.7759	3.2129
101	3.6262	3.2617
102	3.4819	3.3057
103	3.3429	3.3545
104	3.209	3.3984
105	3.0801	3.4424
106	2.9559	3.4863
107	2.8363	3.5303
108	2.7211	3.5693
109	2.6103	3.6133
110	2.5036	3.6523
111	2.4009	3.6963
112	2.3021	3.7354
113	2.207	3.7744
114	2.1155	3.8135
115	2.0276	3.8525
116	1.943	3.8867
117	1.8616	3.9258
118	1.7834	3.96
119	1.7082	3.9941
120	1.6359	4.0283

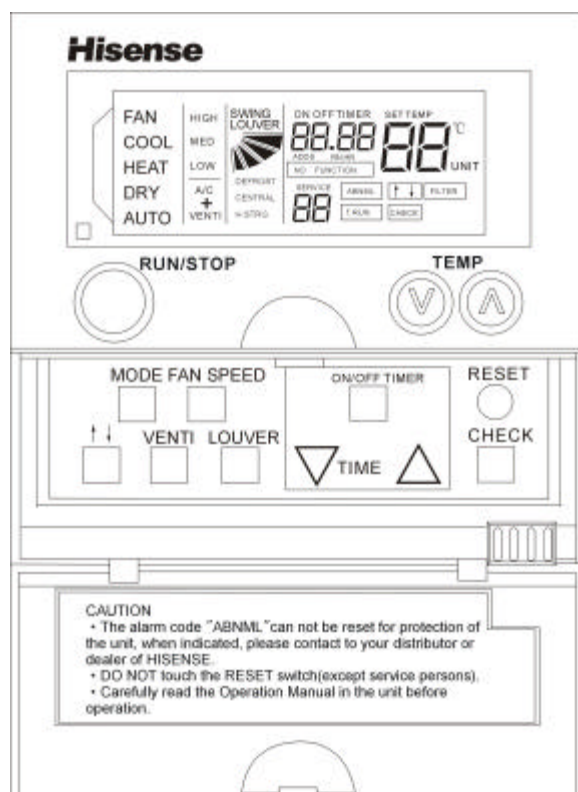
Control mode

1. Major general technical parameters

- 1 Conditionings for operation: Ambient temperatures: (-15 - +45), relative humidity (45 - 85%).
- 2 Remote receiver distance: 50 m.
- 3 Temperature control accuracy: ± 1 .
- 4 Time error: Less than 1%.
- 5 The power supply for the air conditioner is a.c 220V, 50Hz, with its fluctuation in the range of (160 – 253 V).

2. Remote controller

2.1 The picture of the remote controller is as follows:



Displaying Scheme:

1. Control functions of the remote controller (See operating and installation manual) 2.

Display of error codes:

When the system stops running, press the “CHECK” and “ ” buttons, “SERVICE” and “00” will display, “00” is index, press “ ” and “ ” button to set the value, the index value is displayed at the timer area. Each index value shows corresponding content, as follows:

Index value	Content
01	Remote controller in trouble
02	Others trouble code area
05	Set the filter clean time area (See operating and installation manual)

3. Control function

3.1 Emergency switch

3.1.1 Press the emergency switch once to turn on the machine and press it again to turn off the machine; in the automatic mode, the indoor control temperature is set at 24 with the indoor fan speed setting is automatic.

3.1.2 When the machine is turned on (in the OFF condition), press and hold the emergency switch for 10 seconds, the controller starts in the trial operation, regardless of indoor temperature, the trial operation is the forced cooling with the indoor fan speed being set at high speeds(the air conditioner don't according to remote controller communication now,end the function condition is stop power supply.)

3.2 Operator-machine communication

The indoor controller and remote controller has a thermal sensor to detect room temperatures respectively. The indoor temperature is detected by remote controller in normal state, the control function will be automatically switched over to the thermal sensor on the indoor unit when the remote controller sensor has malfunction or the communication malfunction between the remote controller and indoor controller.

3.3 Timer function

3.3.1 Timer on: When set to start in a time by the remote controller, the air conditioner starts in the timer on condition. When the set time is up, the air conditioner will turn on .

3.3.2 Timer off: When set to stop in a set time by the remote controller, the air conditioner will start in the timer off condition. When the set time is up, the air conditioner will turn off .

3.4 The power interruption restoration function

This model can achieve the power interruption restoration function by the selection of the EEPROM data. The power interruption restoration is applied only for the basic functions (turning ON and OFF, setting temperatures, modes, fan speeds) and not for other special functions such as sleep, timing and power-saving run.

3.5 The forced cooling and fixed frequency function

When the system stops running,press the "RESET" and "CHECK" buttons for 5 seconds,the air conditioner will work at fixed frequency mode.

When the system stops running,press the "RUN/STOP" and " " buttons for 5 seconds,the air conditioner will work at forced cooling mode.

3.6 Water overflow alarm

The duct type air conditioner has a water overflow switch , the water overflow switch is off in normal state.When water level is go beyond the limit, the water overflow switch is on,the outdoor is stop after the water overflow switch is on for 30 seconds,and remote controller will display error code.

4. Working mode**4.1 Automatic run mode**

If there is no man-machine communication function after the unit is started, the indoor fan operates at the ultra-low flowrate for 20 seconds before selecting a run mode; The room temperatures are detected during this period for the selection of a run mode.

In the first operation:

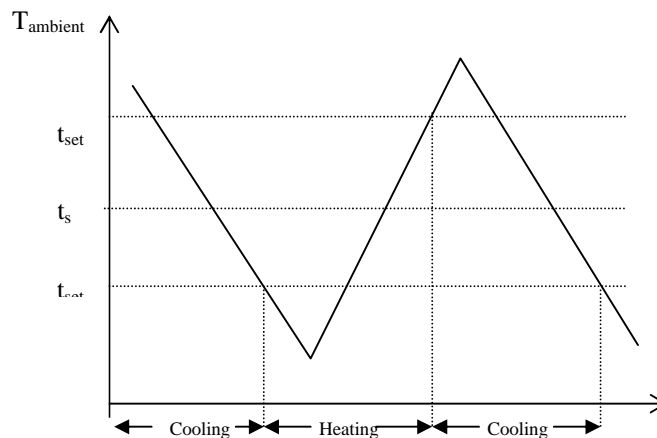
- When $T_{\text{room}} - T_{\text{set}} > 3$, it starts in the cooling mode;
- When $-3 < T_{\text{room}} - T_{\text{set}} < 3$, it starts in the ventilation run mode;
- When $T_{\text{room}} - T_{\text{set}} < -3$, it starts in the heating mode.

After the first run in the cooling or heating mode, the mode will be changed as the following:

- When $T_{\text{room}} - T_{\text{set}} > 3$, it will be changed to the cooling mode;
- When $T_{\text{room}} - T_{\text{set}} < -3$, it will be changed to the heating mode;
- When these conditions are not met, it will remain in the previous run mode.

When the temperature setting is changed, re-judgment will be made for the run mode according to the descriptions mentioned above; when the compressor is halted for 10 minutes, the re-judgment will be made for the run mode.

4.1.1 Switch between the cooling and heating mode:



4.1.2 Cooling→heating turnover operation

Cooling→heating: the compressor stops; 50 s later the 4-way valve is activated and 3 minutes more the compressor turns on.

Heating→cooling: the compressor stops, 50 s later the 4-way valve is interrupted and 3 minutes more the compressor turns on.

4.1.3 There is a temperature compensation during the auto-run, which is same as cooling and heating.

4.2 Cooling-run mode

4.2.1 Temperature compensation

Principle for compensation: The compensation is available only if the proper sensor is used and it is not available when it is subject to the sensor on the remote controller.

4.2.2 Outdoor Fan

The outdoor fan's speeds are divided into three levels which can be changed over according to outdoor ambient temperatures.

When operating at a fixed frequency, the outdoor fan is forced to operate at the high speed.

4.2.3 Indoor fan

When the fan speed is set at the high, medium and low fan speeds, the fan runs at a

preset speed. When the fan speed setting is automatic, the fan speed is set based on the difference in room temperatures.

$T_{\text{room}} - T_{\text{set}}$	Indoor fan speed
$T_{\text{room}} - T_{\text{set}} \geq 2^{\circ}\text{C}$	Low
$2^{\circ}\text{C} > T_{\text{room}} - T_{\text{set}} \geq 4^{\circ}\text{C}$	Medium
$T_{\text{room}} - T_{\text{set}} < 4^{\circ}\text{C}$	High

4.2.4 Prevention against condensation and insufficient heat exchange at the low indoor fan speed.

When the indoor fan speed is set at the low fan speed, the compressor's power is restricted as in the low temperature cooling.

4.2.5 4-way valve

State: It is interrupted in cooling.

4.2.6 Anti-freeze protection

4.2.6.1 Condition for anti-freeze interruption: When the indoor heat exchanger temperature is below the Anti-freeze Interruption Temperature(0°C) and maintains for 10 s, the system is interrupted for the anti-freeze.

Action of anti-freeze interruption: The compressor is interrupted, the outdoor fan stops and the indoor fan remains running.

Condition for anti-freeze left: When the indoor heat exchanger temperature rises to the Anti-freeze Releasing Temperature(9°C), the anti-freeze interruption is left.

4.2.7 Compressor discharge temperature too high protection

4.2.7.1 Conditions for the compressor discharge interruption protection: The compressor discharge temperature is above or equal to 115°C , and remains for 20 s, the compressor discharge interruption protection is activated.

Action of the compressor discharge interruption protection: Prompts are made on the remote controller display screen and with the outdoor indicator light and the compressor stops.

Conditions for the compressor discharge interruption protection left: When the compressor discharge temperature drops below 92°C , the compressor discharge interruption protection is left.

4.2.8 Overcurrent protection in cooling:

4.2.8.1 Conditions for overcurrent protection: When the current rises above or at the Interruption Current Value for the Cooling Current Protection(23A) and maintains for 10 s, the overcurrent protection is activated.

Action of the overcurrent protection: Prompts are shown on the screen on the remote controller unit and by the indicator light on the outdoor unit. The compressor stops.

Conditions for overcurrent protection left: When the current drops below the Value of the Current for the Cooling Current Protection Left(13A), the overcurrent protection is left.

4.3 Heating-run mode

4.3.1 Temperature compensation

Principle for compensation: The compensation is available only if the proper sensor is used and it is not available when it is subject to the sensor on the remote controller or

line controller.

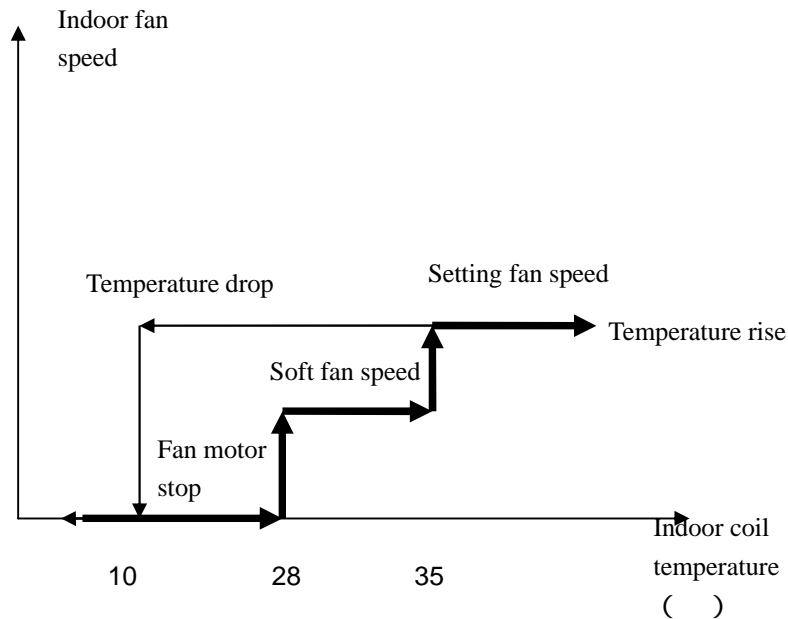
4.3.2 Indoor fan

The fan speed is set at the high, medium or low fan speed, it operates at a preset speed (in the cold air prevention, it is forced to run at the ultra-low flowrate or stop). When the fan speed is set in the auto-run, the fan speed setting is made according to the room temperature differences (except for the cold air prevention).

$T_{room} - T_{set}$	Indoor fan speed
$T_{room} - T_{set} \geq 2^{\circ}\text{C}$ OR $T_{room} - T_{set} < 2^{\circ}\text{C}$	Low
$2^{\circ}\text{C} > T_{room} - T_{set} \geq 4^{\circ}\text{C}$	Medium
$T_{room} - T_{set} < 4^{\circ}\text{C}$	High

4.3.3 Cold air prevention

In the heating-run, to prevent the indoor fan from blowing cold air, the indoor fan speed is controlled as illustrated below:



When the indoor coils temperature rises above 28°C, the indoor fan runs at the ultra-low speed; when above 35°C at a preset speed or at the auto-speed to end the cold air protection. When the indoor coils temperature drops below 10°C, the indoor fan will stop. The cold air prevention is work in 4 minutes, it will cancelled after 4 minutes.

4.3.4 Residual heat blowing off

When the compressor is turned off in the heating run, the indoor fan does not stop at once, until the indoor evaporator temperature is below 30°C, but for 30 seconds at the latest.

4.3.5 Outdoor fan

The outdoor fan speeds are divided into three levels which can be changed over according to outdoor ambient temperatures.

4.3.6 4-way valve

State: It is electrified in heating.

Switchover: When initially powered on for heating, the 4-way valve is activated immediately.

In the change from cooling to heating, it needs an interval of 50 seconds for the 4-way valve to change over from being interrupted to being activated.

4.3.7 Overload control

4.3.7.1 Conditions for the system to be interrupted on overload: When the indoor heat exchanger temperature is higher than or equal to the Interrupting Temperature for Overload Protection **65**, and maintains for 10 s, the overload control is activated to interrupt the system.

Action of the overload interruption: The compressor is interrupted, the outdoor fan stops and the indoor fan keeps running or operates for cold air prevention.

Conditions for overload interruption left: When the indoor heat exchanger temperature drops below the Temperature for Overload Protection Lift **47**, the overload control interruption is left.

4.3.8 Overcurrent protection in heating

Same as cooling.

4.3.9 The compressor discharge temperature too high protection

Same with the cooling-run mode.

4.3.10 Defrost

4.3.10.1 Conditions for the judgment for frosting

Condition 1: The compressor has been kept operating for a certain time (**50** minutes)

Condition 2:

When $T_{\text{outdoor ambient}} \geq \mathbf{3}$, $T_{\text{outdoor condenser}} \leq \mathbf{-3}$, and maintains for **5** minutes.

When $T_{\text{outdoor ambient}} < \mathbf{3}$, $T_{\text{outdoor ambient}} - T_{\text{outdoor condenser}} \geq \mathbf{8}$, and maintains for **5** minutes.

If both conditions set out above are met at the same time, then it is judged that frosting has taken place.

4.3.10.2 Defrosting operation

The outdoor fan stops;

The compressor's operating frequency drops, the 4-way valve is closed, and then goes up at a certain frequency for operation.

4.3.10.3 Conditions for the Completion of Defrosting

The defrosting run lasts for more than a certain time (**12** minutes).

The outdoor coils temperature $\geq \mathbf{12^{\circ}\text{C}}$

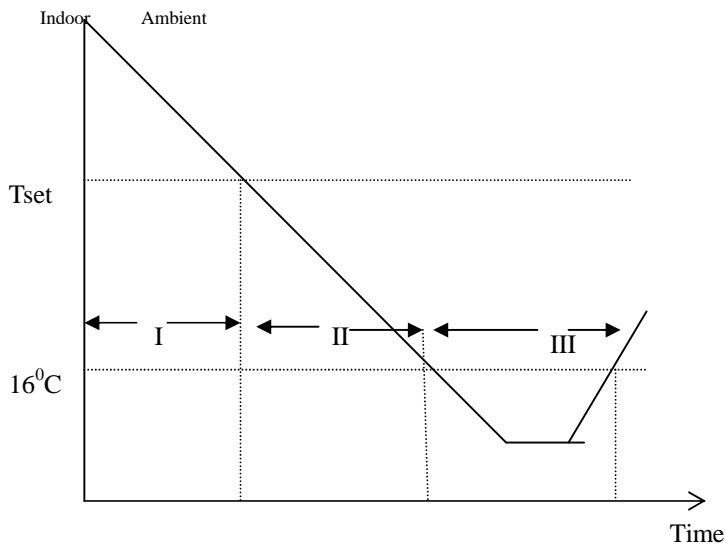
If either of the above conditions is met, it judges that frosts have been cleared off.

4.3.10.4 Operations to end defrosting

The compressor frequency goes down at a rate, and the compressor get interrupted; 50 s later the 4-way valve opens up, and 10 s more both the compressor and the outdoor fan restarts in normal operation.

4.4 Dehumidifying mode

The dehumidifying mode is illustrated as follows:



Dehumidifying area I: Operation at the frequency in the range (30 – 80 Hz) according to Δt ($T_{\text{indoor ambient}} - T_{\text{set}}$).

$\Delta t()$	f(Hz)
0	30
0.5	30
1	40
1.5	50
2	60
Efficient	80

Dehumidifying area II: The compressor stops for 5 minutes and operates for 5 minutes at the lowest frequency.

Dehumidifying area III: The compressor stops.

4.5 Air Blowing mode

The outdoor unit does not work while the indoor fan runs with the fan speed selectable at the auto, low, medium and high speeds.

When being auto, the fan speed is determined in the cooling mode (with the temperature setting of 24°C in default).

The high, medium and low fan speeds are same with that in the cooling mode.

5. Compressor operating state indication

When the compressor is in operation, The 3 LED indicator lights on the control panel of the outdoor unit indicates the causes of the restriction on the compressor's current operating frequency.

Symbols for indicator light:: : ON O: flashing ×: OFF				
	LED1	LED2	LED3	The cause of the restriction on the compressor's current operating frequency
1	O	O	O	Normal frequency ascent and descent with no restriction on the frequency

6. CONTROL MODEL**ADM-24UX4SGKA**

2	×	×		Frequency descent or restriction on frequency ascent caused by overcurrent
3	×			Frequency descent or restriction on frequency ascent caused by anti-freeze in cooling or overload control in heating
4		×		Frequency descent or restriction on frequency ascent caused by too high compressor discharge temperature
5	×		×	Restriction on maximum operation operating frequency caused by too low voltage on the supply circuit
6				Operating at a fixed frequency (when in a capacity measurement or forced operation at a fixed frequency.)
7	×		○	Outdoor overload protection or restriction frequency rises.

7-1. Trouble alarm

Trouble List

—Indication on the outdoor unit

When the compressor is interrupted, the outdoor LEDs are used to indicate the troubles listed below:

Symbols for indicator lights: ★: ON O: flashing ×: OFF					
	LED1	LED2	LED3	Troubles	Possible Cause
1	×	×	×	Normal	
2	×	★	×	Outdoor coil sensor in trouble	1. Outdoor coil sensor is failure
3	★	×	×	Compressor temperature sensor short-circuited, open circuited or the corresponding test circuit in trouble	1. Compressor overheat protection sensor is failure 2. Outdoor control board in trouble
4	★	×	★	Outdoor heat exchanger temperature sensor short-circuited, open circuited or the corresponding test circuit in trouble	1. Outdoor heat exchanger temperature sensor is failure 2. Outdoor control board in trouble
5	★	★	×	Outdoor ambient temperature sensor short-circuited, open circuited or the corresponding test circuit in trouble	1. Outdoor ambient temperature sensor is failure 2. Outdoor control board in trouble
7	×	×	O	Signal communication abnormal (indoor – outdoor)	1. Connection cable isn't well connect 2. Indoor control board in trouble 3. Outdoor control board in trouble
8	×	O	×	Power module (IPM) protection	1. Normal protection 2. Outdoor IPM control board is failure in the outdoor control board. 3. The compressor is failure.
9	★	O	★	Maximum current control	1. Normal protection 2. The compressor is failure
10	★	O	×	Current overload control	1. Normal protection 2. The outdoor control board in trouble.
11	×	O	★	Compressor discharge temperature too high	1. Heat exchanger and indoor filter were dirty. 2. The refrigeration system was stopt. 3. Compressor discharge temperature sensor is failure.
12	★	★	O	Over and under-voltage control	1. Voltage of power supply is abnormal. 2. Outdoor control board in trouble.

7. TROUBLE SHOOTING

ADM-24UX4SGKA

14	×	★	★	Between the 2 CPUs in the outdoor communication trouble。	1. Outdoor control board in trouble
15	×	★	○	Compressor housing temperature too high	1. The system refrigeration system wants refrigerant(R410A). 2. Ventilation condition of the air conditioner don't accorded to standard.
16	★	★	★	Outdoor memory in trouble	1. Outdoor control board in trouble.
17	○	○	×	Compressor fails to start	1. DC compressor is failure. 2. Outdoor control board in trouble.
18	×	○	○	Anti-freeze or overload protection	1. Normal protection。 2. Outdoor control board is failure。

二. Display of error codes:

When the system stops running,press the “CHECK” and “↑ ↓” buttons, “SERVICE” and “00” will display,”00” is index ,press “^”and “v” button to set the value, the index value is displayed at the timer area .Each index value shows corresponding content,as follows:

Index value	Content
01	Remote controller in trouble
02	Others trouble code area
05	Set the filter clean time area (See operating and installation manual)

Trouble code		Possible Cause
0	No trouble	
1	Outdoor coil temperature sensor in trouble	<ol style="list-style-type: none"> 1. Outdoor coil temperature sensor is failure 2. Outdoor control board in trouble
2	Compressor discharge temperature sensor in trouble	<ol style="list-style-type: none"> 1. Compressor discharge sensor is failure 2. Outdoor control board in trouble
5	IPM protection	<ol style="list-style-type: none"> 1. Normal protection 2. Outdoor IPM control board is failure in the outdoor control board. 3. The compressor is failure.
6	Over and under-voltage control	<ol style="list-style-type: none"> 1. Voltage of power supply is abnormal. 2. Outdoor control board in trouble.
8	Current overload control	<ol style="list-style-type: none"> 1. Normal protection 2. The outdoor control board in trouble.
9	Maximum current control	<ol style="list-style-type: none"> 1. Normal protection 2. The compressor is failure
11	Outdoor EEPROM in trouble	<ol style="list-style-type: none"> 1. Outdoor control board in trouble.
13	Compressor exhaust temperature too high control	<ol style="list-style-type: none"> 1. Heat exchanger and indoor filter were dirty. 2. The refrigeration system was stopt. 3. Compressor discharge temperature sensor is failure.
14	Outdoor ambient temperature sensor in trouble	<ol style="list-style-type: none"> 1. Outdoor ambient temperature sensor is failure 2. Outdoor control board in trouble
15	Compressor housing temperature protection	<ol style="list-style-type: none"> 1. Compressor overheat protection sensor is failure 2. Outdoor control board in trouble
16	Anti-freeze or overload control	<ol style="list-style-type: none"> 1. Indoor coil temperature sensor is failure. 2. Indoor control board in trouble.
18	Compressor fails to start	<ol style="list-style-type: none"> 1. Compressor is failure. 2. Outdoor IPM control board is failure in the outdoor control board.
33	Room temperature sensor in trouble	<ol style="list-style-type: none"> 1. Room temperature sensor is failure 2. Indoor control board in trouble
34	Indoor coil temperature sensor in trouble	<ol style="list-style-type: none"> 1. Indoor coil temperature sensor is failure 2. Indoor control board in trouble
35	Between wire remote controller and indoor unit communication trouble	<ol style="list-style-type: none"> 1. Wire remote controller in trouble. 2. Indoor control board in trouble.

7. TROUBLE SHOOTING

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36	Communication between the indoor and outdoor in trouble	<ol style="list-style-type: none"> 1. Connection cable isn't well connect 2. Indoor control board in trouble 3. Outdoor control board in trouble
37	Water overbrimmed the pump.	<ol style="list-style-type: none"> 1. Check the pump
38	Indoor EEPROM in trouble	<ol style="list-style-type: none"> 1. Indoor control board in trouble.

三. Indication on the indoor unit

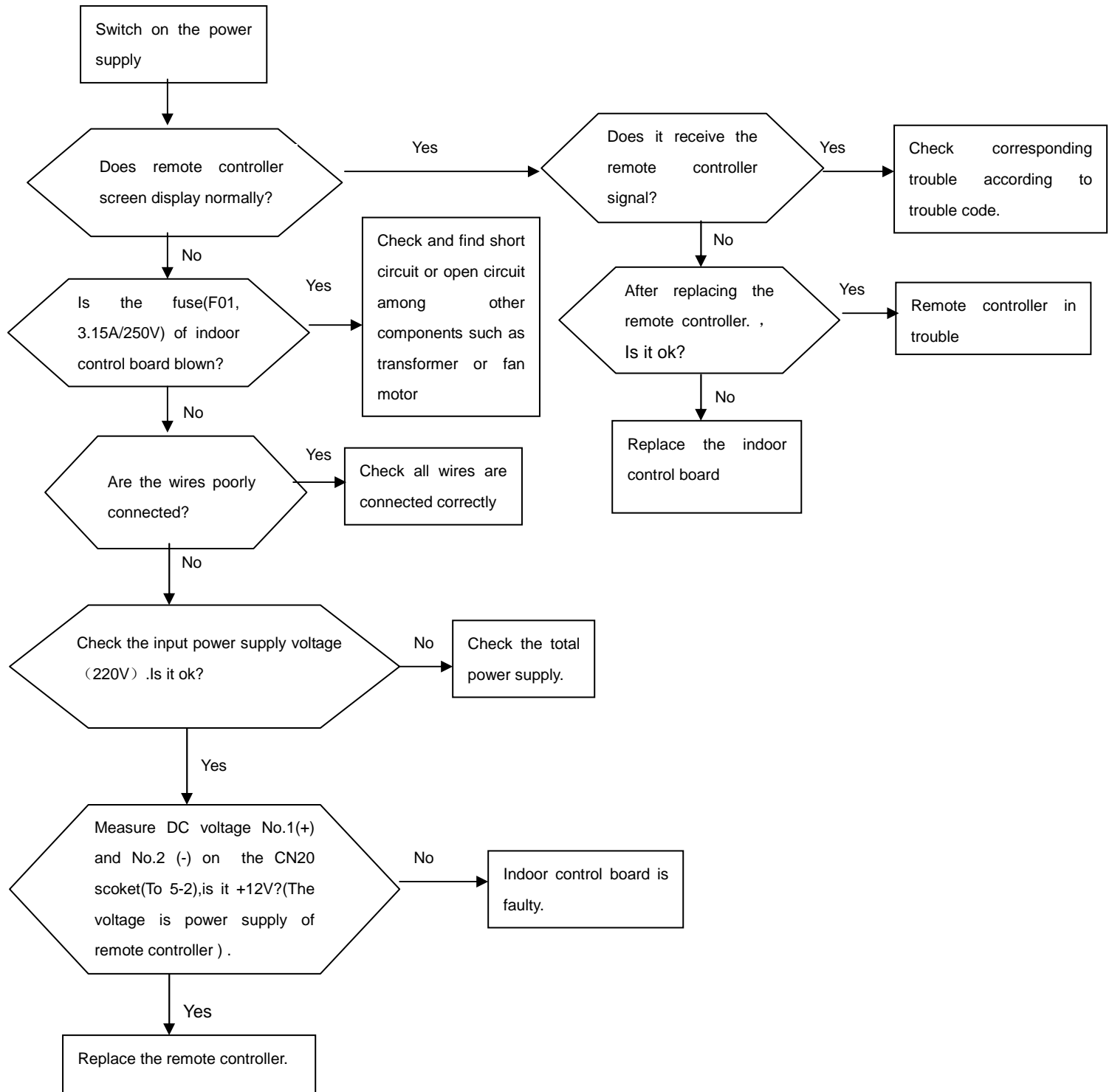
If the compressor fails when it is interrupted, the indoor unit's LED flashes indicating the specific trouble code. It flashes as many times as the number of the trouble code is.

Times		Possible Cause
0	No trouble	
1	Outdoor coil temperature sensor in trouble	<ol style="list-style-type: none"> 1. Outdoor coil temperature sensor is failure 2. Outdoor control board in trouble
2	Compressor discharge temperature sensor in trouble	<ol style="list-style-type: none"> 1. Compressor discharge sensor is failure 2. Outdoor control board in trouble
4	Current transformer in trouble	<ol style="list-style-type: none"> 1.
5	IPM protection	<ol style="list-style-type: none"> 1. Normal protection 2. Outdoor IPM control board is failure in the outdoor control board. 3. The compressor is failure.
6	Over and under-voltage control	<ol style="list-style-type: none"> 1. Voltage of power supply is abnormal. 2. Outdoor control board in trouble.
8	Current overload control	<ol style="list-style-type: none"> 1. Normal protection 2. The outdoor control board in trouble.
9	Maximum current control	<ol style="list-style-type: none"> 1. Normal protection 2. The compressor is failure
11	Outdoor EEPROM in trouble	<ol style="list-style-type: none"> 1. Outdoor control board in trouble.
13	Compressor exhaust temperature too high control	<ol style="list-style-type: none"> 1. Heat exchanger and indoor filter were dirty. 2. The refrigeration system was stopt. 3. Compressor discharge temperature sensor is failure.
14	Outdoor ambient temperature sensor in trouble	<ol style="list-style-type: none"> 1. Outdoor ambient temperature sensor is failure 2. Outdoor control board in trouble
15	Compressor housing temperature protection	<ol style="list-style-type: none"> 1. Compressor overheat protection sensor is failure 2. Outdoor control board in trouble
16	Anti-freeze or overload control	<ol style="list-style-type: none"> 1. Indoor coil temperature sensor is failure. 2. Indoor control board in trouble.
18	Compressor fails to start	<ol style="list-style-type: none"> 1. Compressor is failure. 2. Outdoor IPM control board is failure in the outdoor control board.

7. TROUBLE SHOOTING**ADM-24UX4SGKA**

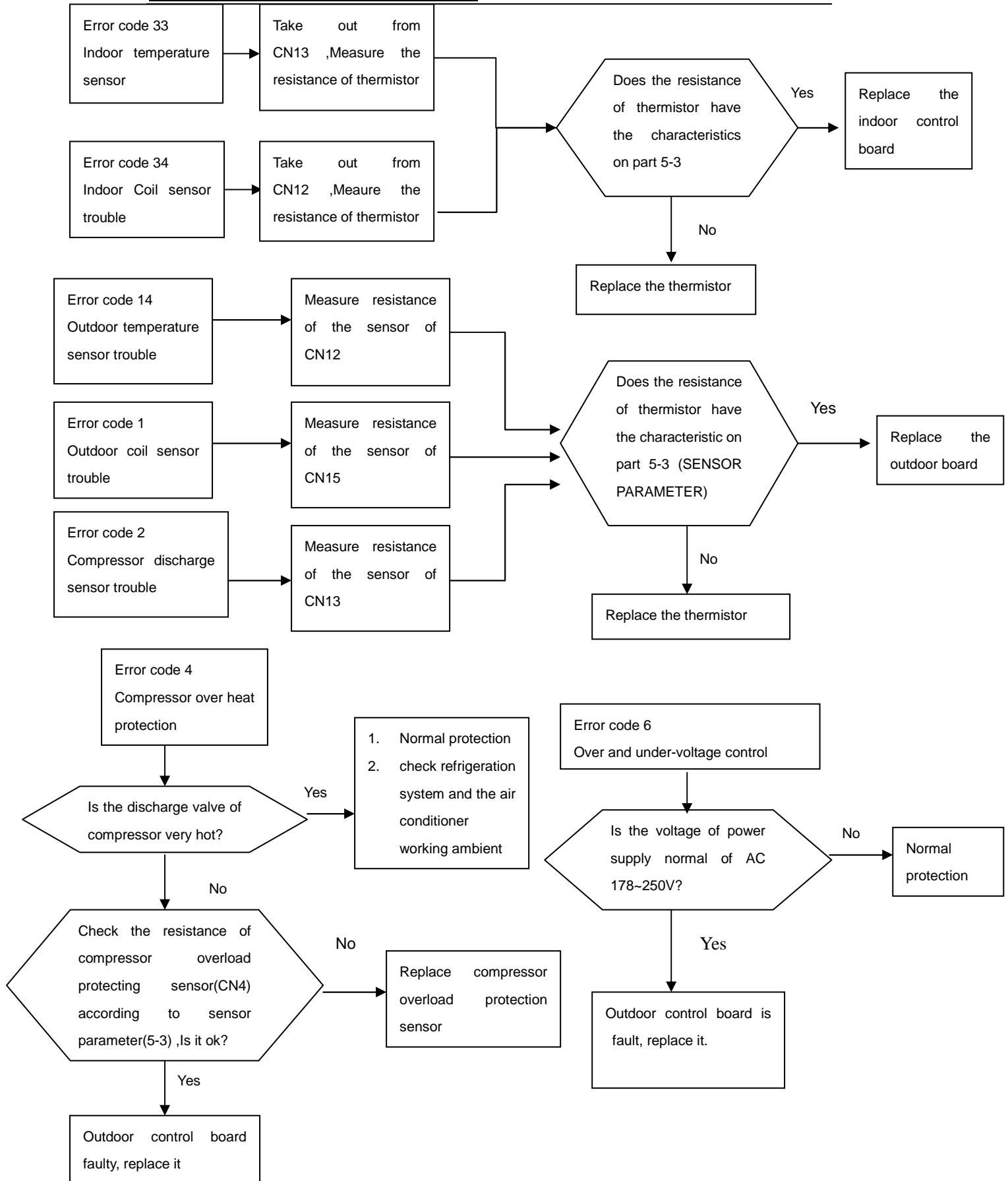
33	Room temperature sensor in trouble	3. Room temperature sensor is failure 4. Indoor control board in trouble
34	Indoor coil temperature sensor in trouble	3. Indoor coil temperature sensor is failure 4. Indoor control board in trouble
35	Between wire remote controller and indoor unit communication trouble	3. Wire remote controller in trouble. 4. Indoor control board in trouble.
36	Communication between the indoor and outdoor in trouble	4. Connection cable isn't well connect 5. Indoor control board in trouble 6. Outdoor control board in trouble
37	Water overbrimmed the pump.	1. check the pump
38	Indoor EEPROM in trouble	1. Indoor control board in trouble.

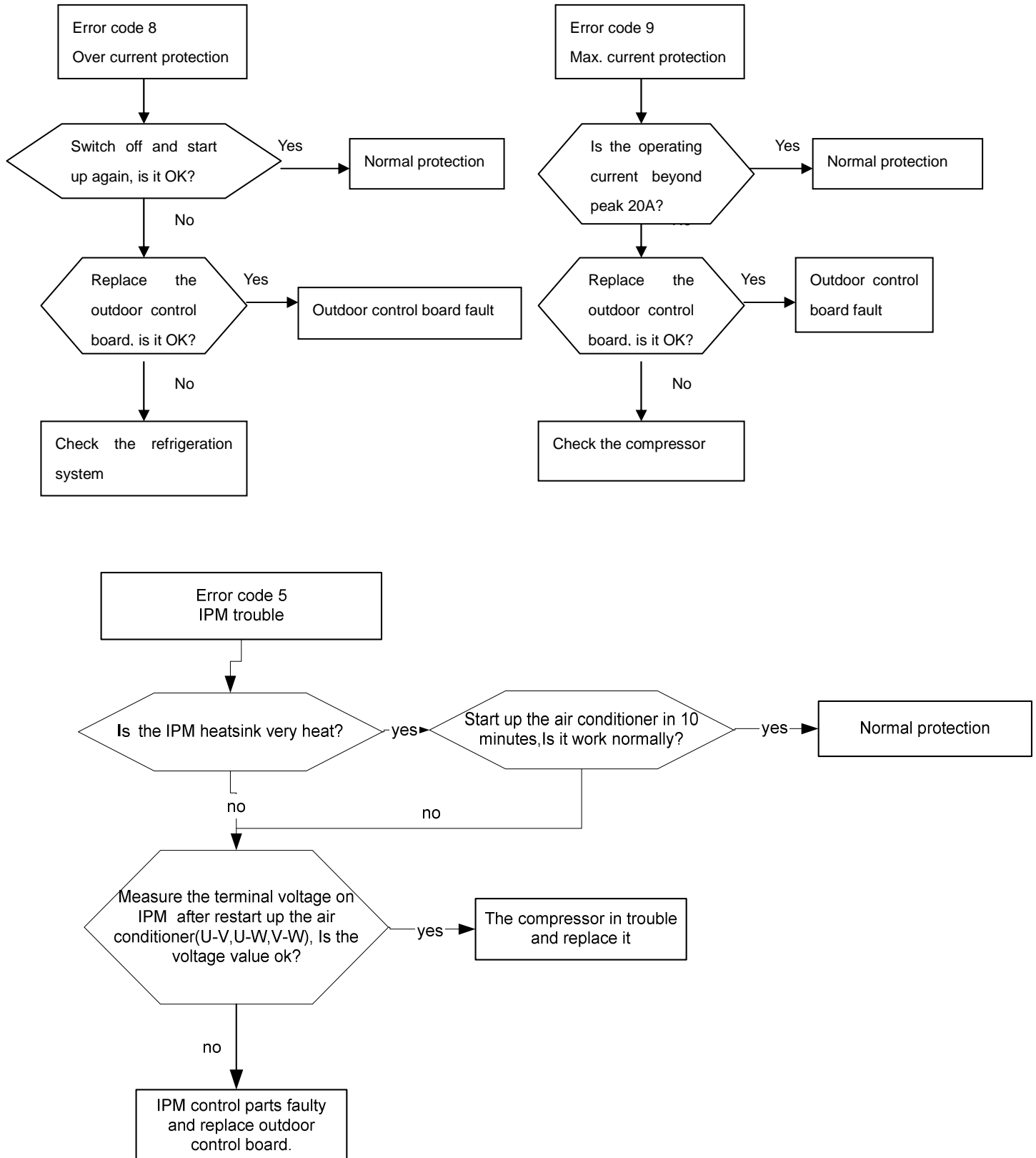
7-2. Service flow chart

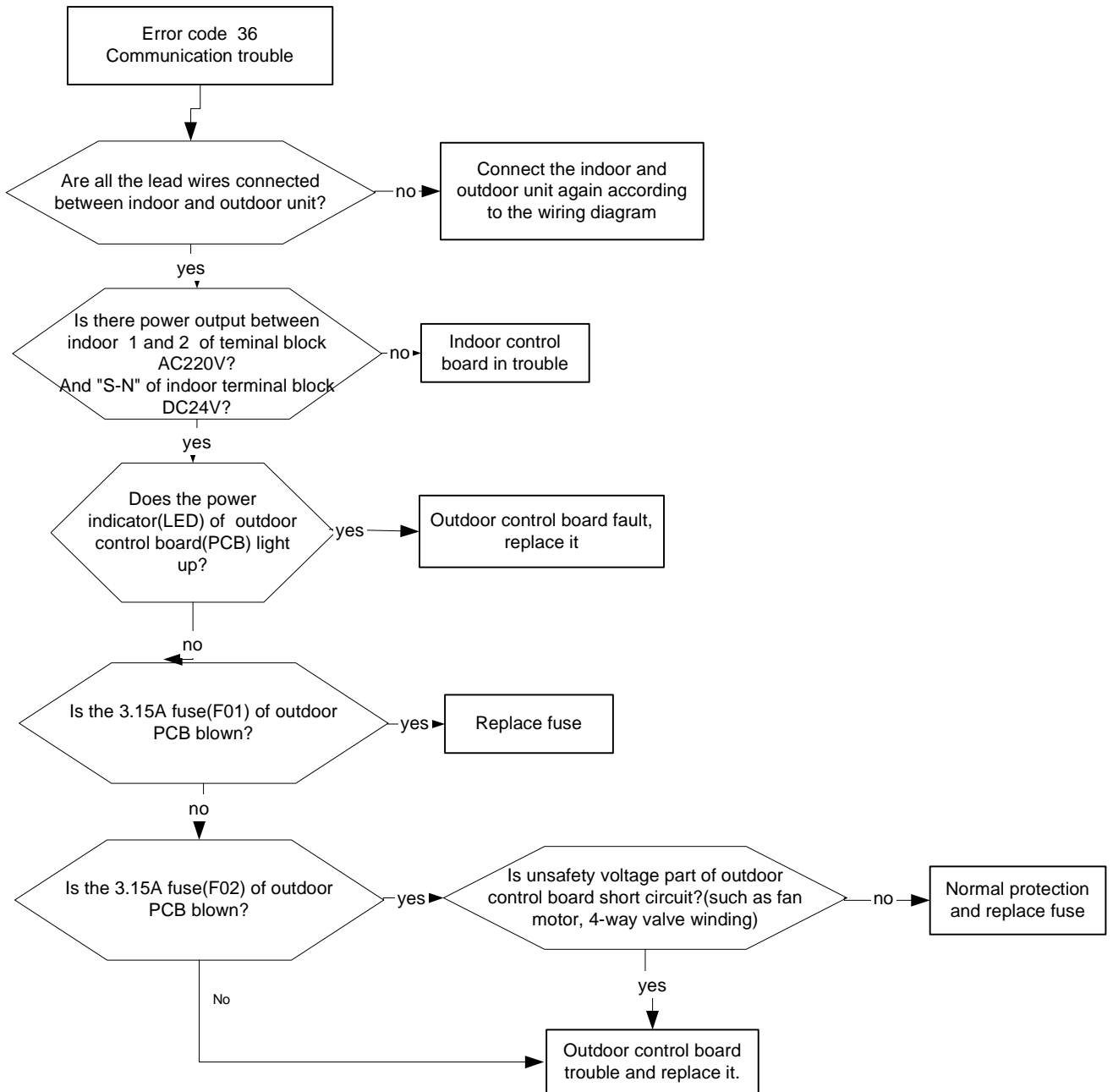


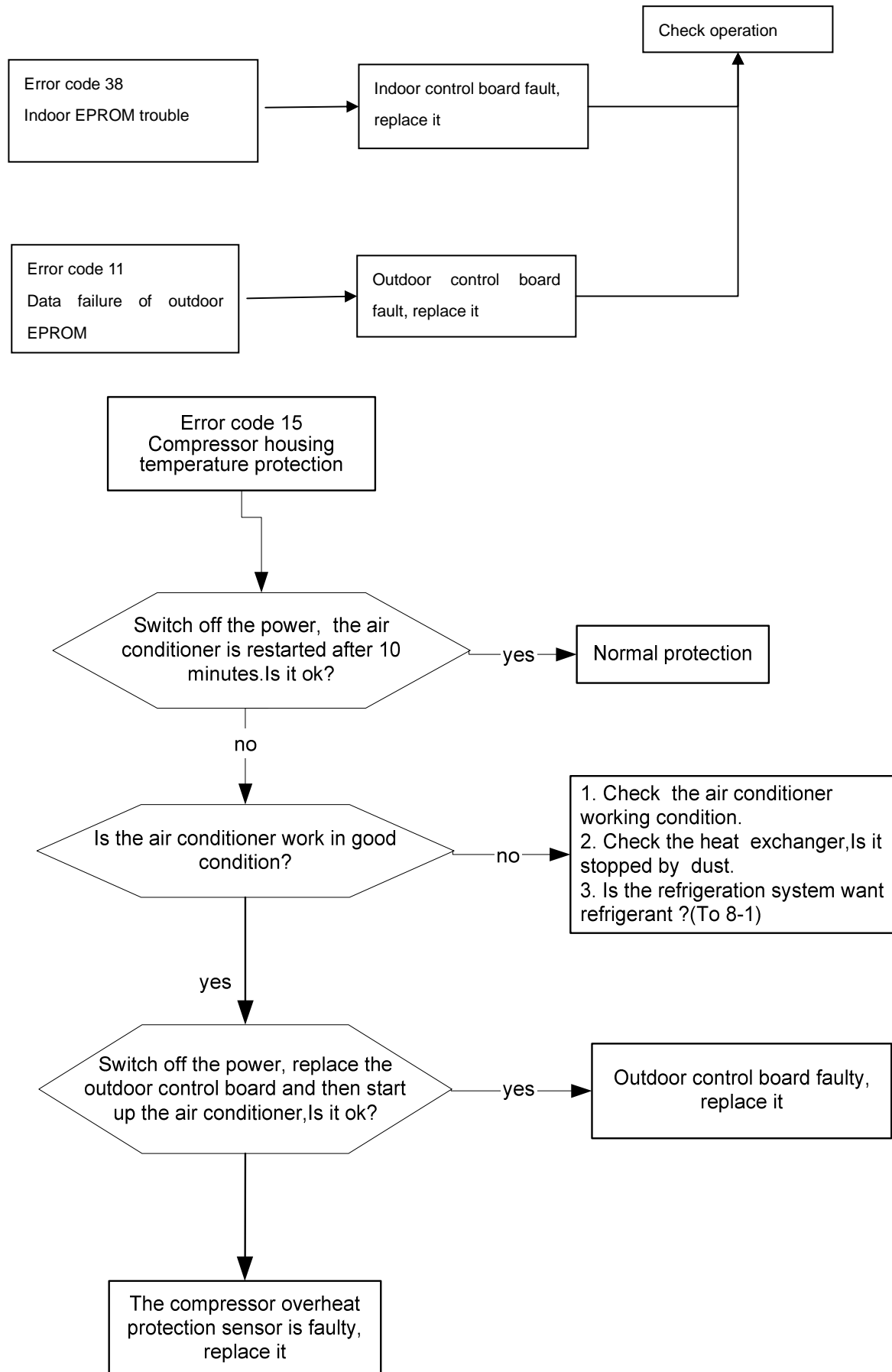
7. TROUBLE SHOOTING

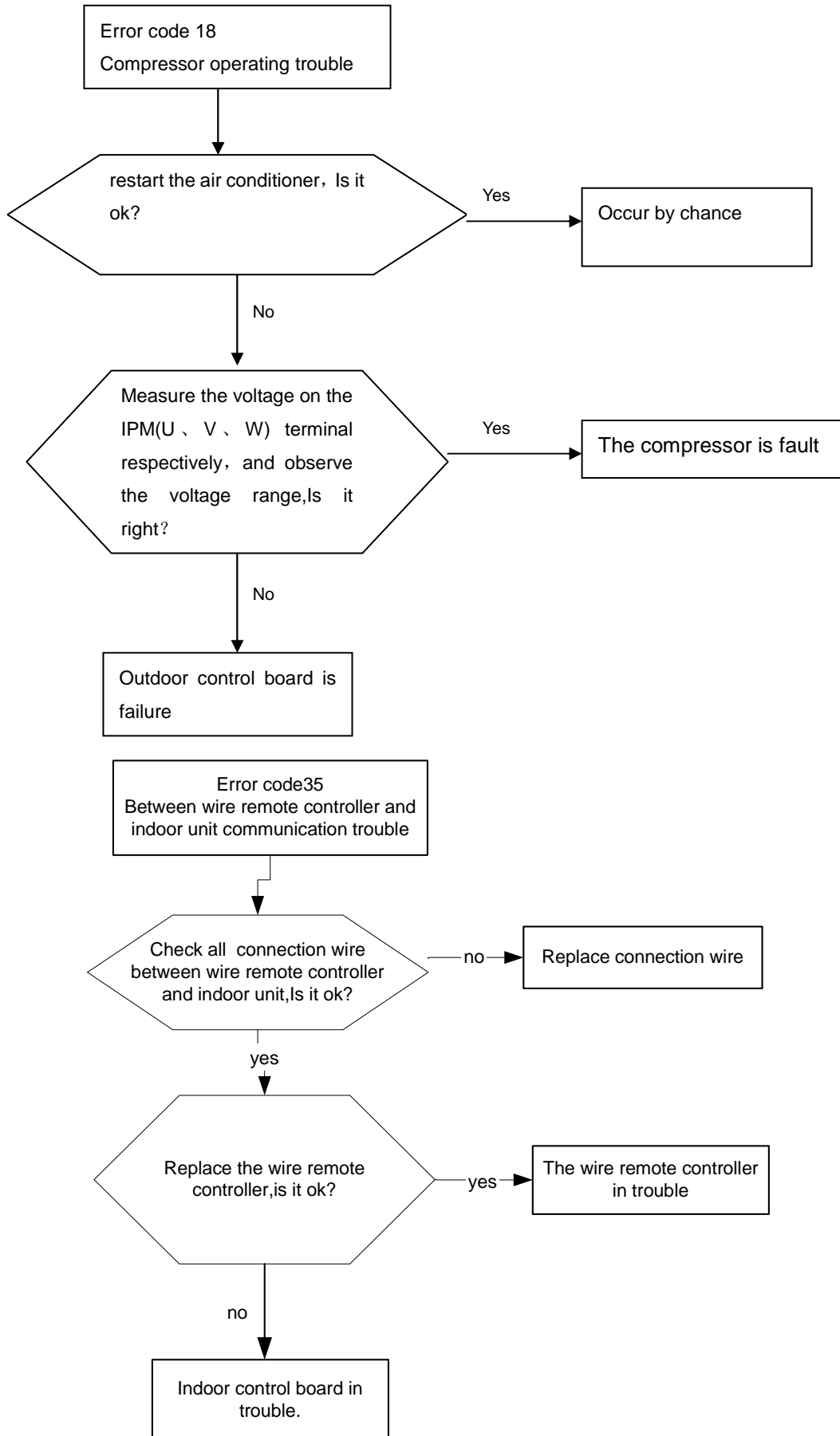
ADM-24UX4SGKA











8-1. Check refrigerant system**TEST SYSTEM FLOW**

Conditions: Compressor is running.

The air condition should be installed in good ventilation.

Tool: Pressure Gauge

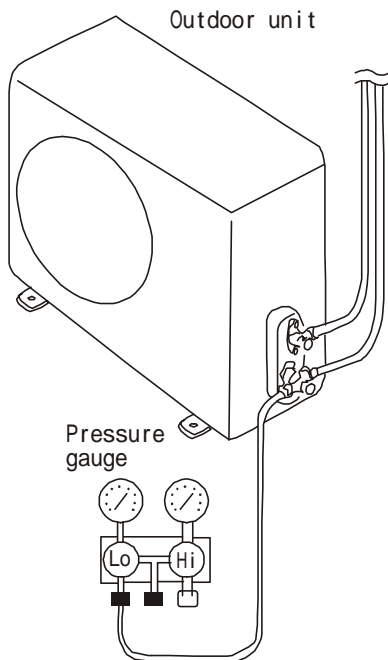
Technique: see feel test

SEE---Tube defrost.

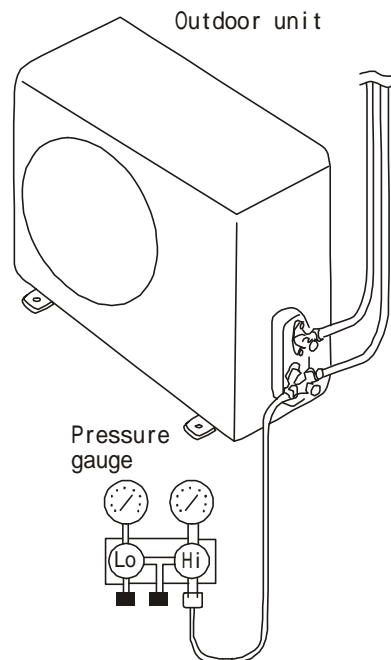
FEEL---The difference tube temperature.

TEST--- Test pressure.

cooling run



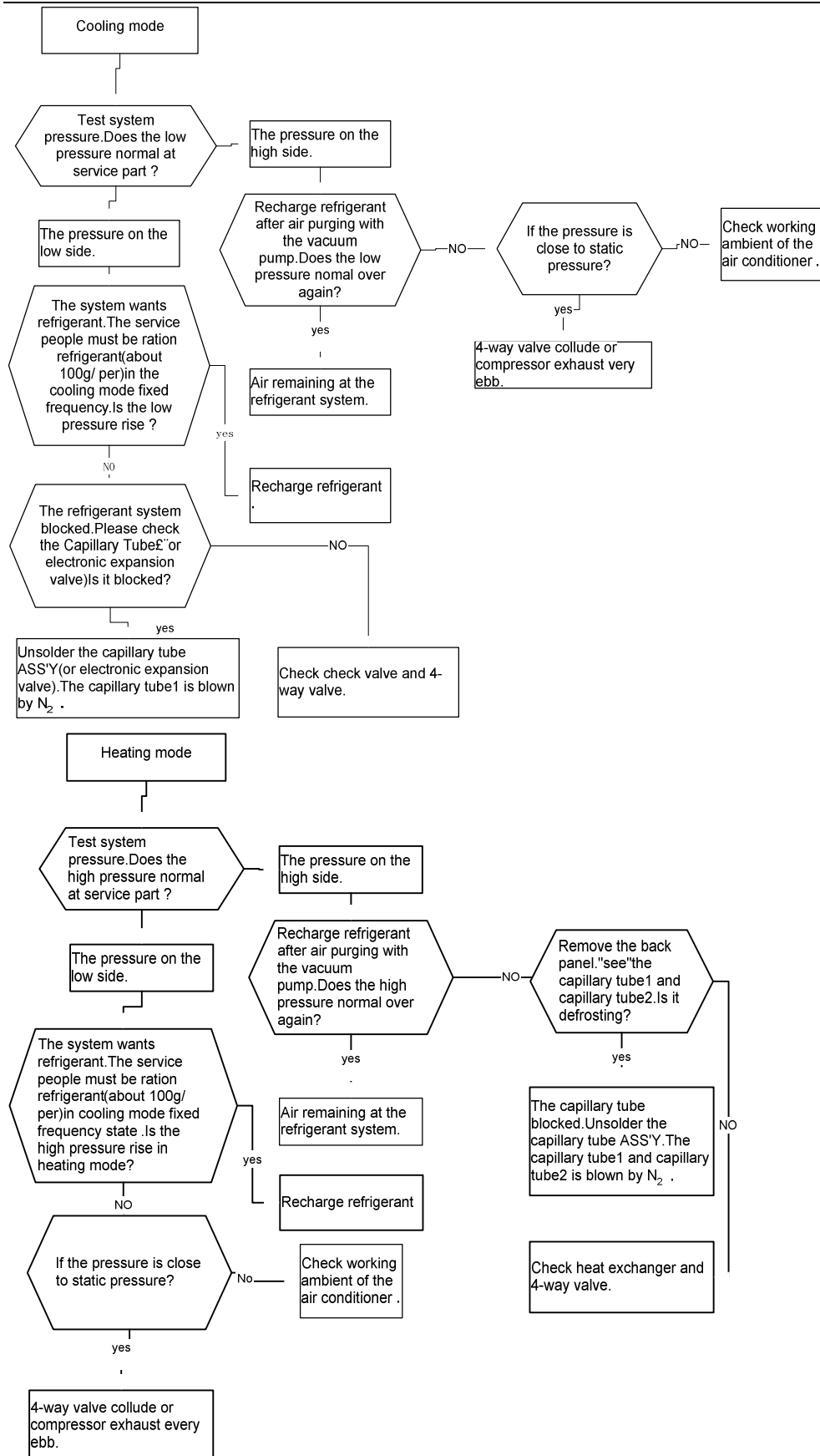
heating run



Test system flow

8. CHECKING COMPONENTS

ADM-24UX4SGKA

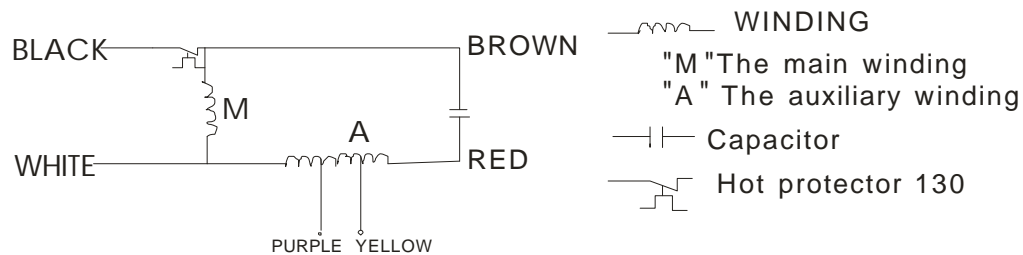


8-2. Check parts unit

1. INDOOR FAN MOTOR (-230-)

MOTOR EXAMINE AND REPAIR

Circuit diagram



Winding resistance (at 20)

M: 70.5 A: 27

MOTOR EXAMINE AND REPAIR

Test in resistance.

TOOL: Multimeter.

Test the resistance of the main winding. The indoor fan motor is fault if the resistance of main winding 0(short circuit)or (open circuit) .

Notes:

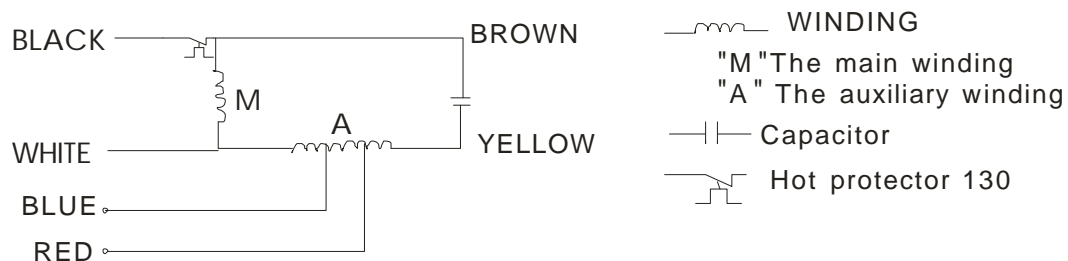
1) Please don't hold motor by lead wires.

2) lease don't plug IN/OUT the motor connector while power ON.

lease don't drop .Hurl or dump motor against hard material.Malfunction may not be observed at early stage after such shock.But it may be found later,This type of mishandling void our warranty.

2. OUTDOOR FAN MOTOR (-057-)

MOTOR EXAMINE AND REPAIR



Winding resistance (at 20)

M: 69 A: 97.5

MOTOR EXAMINE AND REPAIR

Test in resistance.

TOOL: Multimeter.

Test the resistance of the main winding. The indoor fan motor is fault if the resistance of main winding 0(short circuit)or (open circuit) .

Notes:

1) Please don't hold motor by lead wires.

3) lease don't plug IN/OUT the motor connector while power ON.

lease don't drop .Hurl or dump motor against hard material.Malfunction may not be

8. CHECKING COMPONENTS

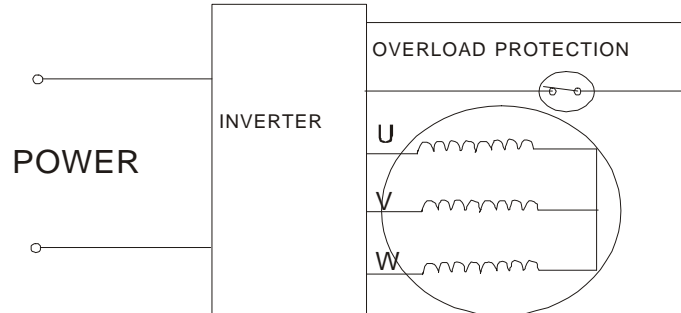
ADM-24UX4SGKA

observed at early stage after such shock. But it may be found later, This type of mishandling void our warranty.

3. COMPRESSOR (-040-)

1. Coil Resistance: 0.88 (at 20)

2. COMPRESSOR EXAMINE AND REPAIR.



Test in resistance.

TOOL: Multimeter.

Test the resistance of the winding. The compressor is fault if the resistance of winding 0 (short circuit) or (open circuit)

Familiar trouble: 1) Compressor motor is locked. 2) Discharge pressure value is ebb. 3) The resistance of Compressor motor winding is abnormality.

Notes : 1) Don't put a compressor on its side or turn over.

2) Please assembly the compressor in your air conditioner rapidly after removing the plugs. Don't place the comp. In air for along time.

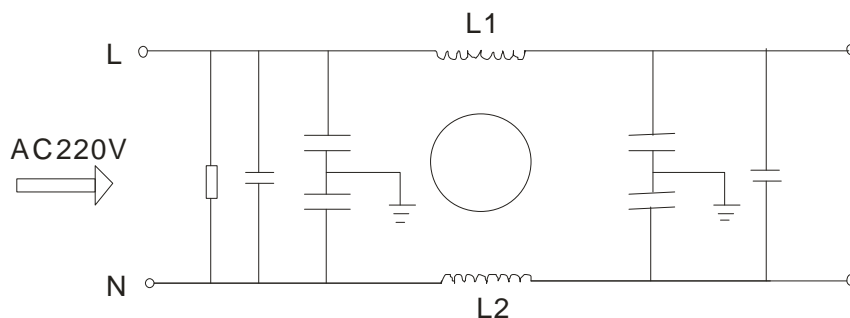
3) Avoiding compressor running in reverse caused by connecting electrical wire incorrectly.

4) Warning! In case AC voltage is impressed to compressor, the compressor performance will belower because of its rotor magnetic force decreasing.

4. INDUCTANCE

Familiar error: 1) Sound abnormality 2) Insulation resistance disqualification.

5. FILTER(-017-)



Test in resistance.

TOOL: Multimeter.

Test the resistance of "LOAD" port. The filter is fault if the resistance of winding 0 (short circuit) or (open circuit)

8-2-3. Check others**1. FUSE**

Checking continuity of fuse on PCB ASS'Y.

- 1) Remove the PCB ASS'Y from the electrical component box..Then pull out the fuse from the PCB ASS'Y (Fig.1)

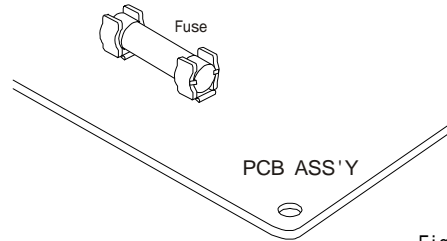


Fig.1

- 2) Check for continuity using a multimeter as shown in Fig.2.

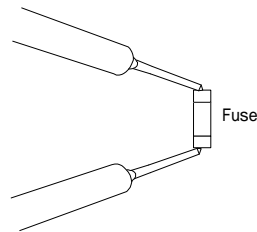


Fig.2

2. CAPACITOR

Remove the lead wires from the capacitor terminals, and then place a probe on the capacitor terminals as shown in Fig.3.Observe the deflection of the pointer, setting the resistance measuring range of the multimeter to the maximum value.

The capacitor is “good” if the pointer bounces to a great extent and then gradually returns to its original position.

The range of deflection and deflection time differ according to the capacity of the capacitor.

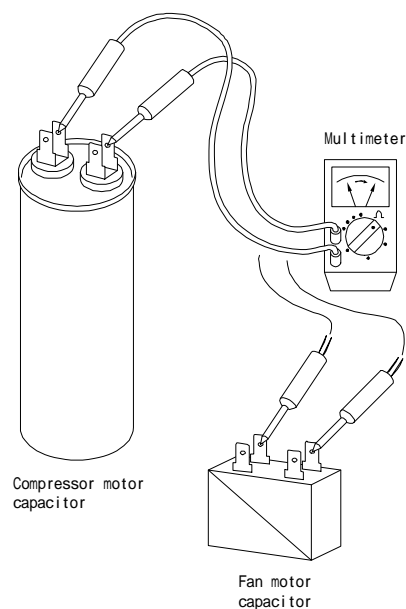
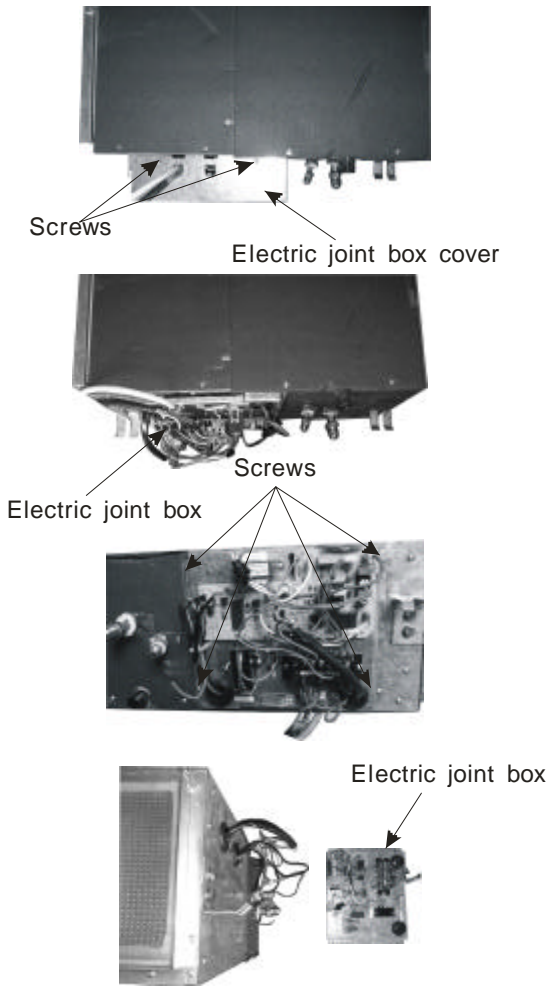
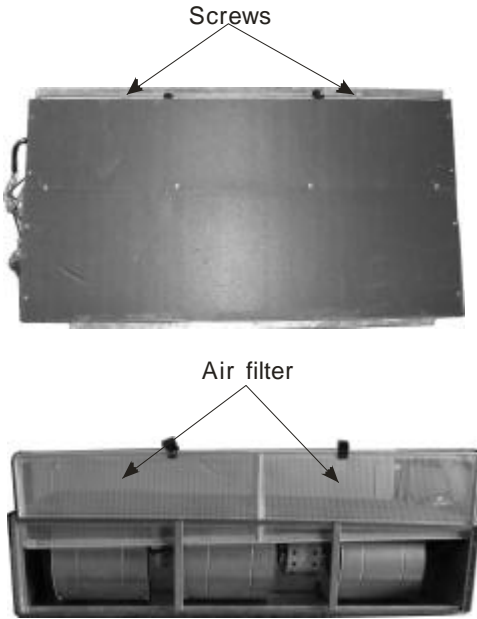


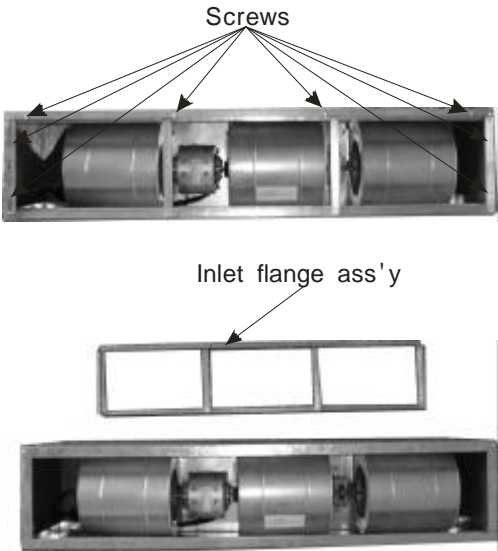
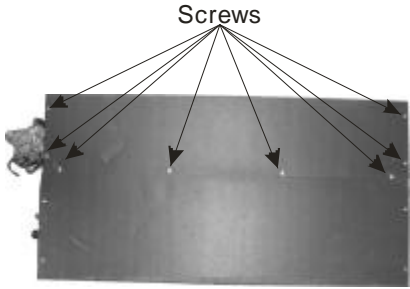
Fig.3

9-1.INDOOR

OPERATION PROCEDURE	PHOTOS
<p>1.Remove the electric joint box parts.</p> <p>1)Take out the 2 screws of the electric joint box cover and remove the electric joint box cover.</p> <p>2)Disconnect all the connectors on the PCB.</p> <p>3)Take out the 4 screws of electric joint box and remove it.</p>	 <p>Screws</p> <p>Electric joint box cover</p> <p>Screws</p> <p>Electric joint box</p> <p>Electric joint box</p>
<p>2.Turn the 2 clips of inlet flange, and remove the air filter.</p>	 <p>Screws</p> <p>Air filter</p>

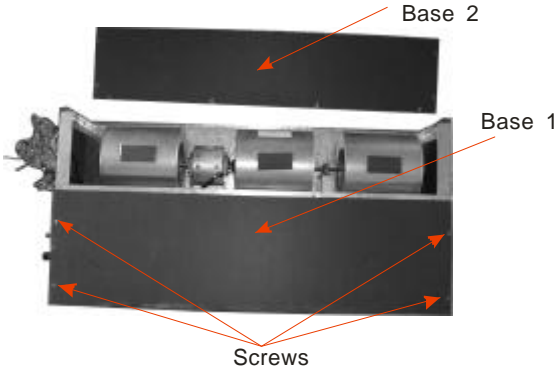

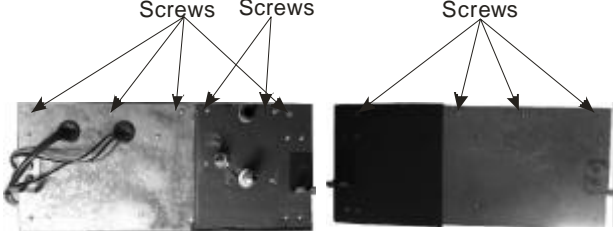
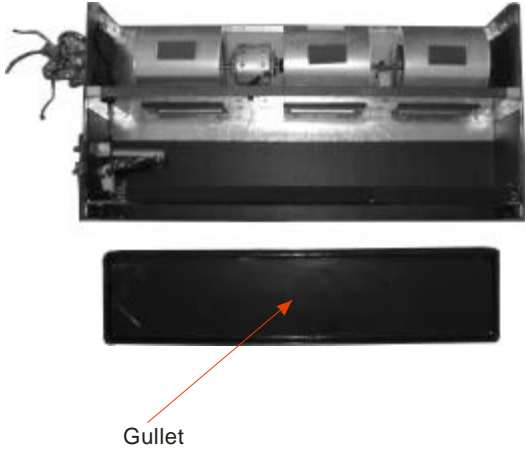
9. DISASSEMBLY INSTRUCTIONS

ADM-24UX4SGKA

OPERATION PROCEDURE	PHOTOS
<p>3.Remove the flange parts .</p> <p>1)Take out the 8 screws and remove the inlet flange ass'y.</p> <p>2)Take out the 12 screws and remove the outlet flange ass'y.</p>	 <p>The first photo shows the top of the unit with 8 screws being removed from the inlet flange. The second photo shows the inlet flange assembly being lifted out. The third photo shows the bottom of the unit with 12 screws being removed from the outlet flange. The fourth photo shows the outlet flange assembly being lifted out.</p>
<p>4.Remove the base parts .</p> <p>1)Take out the 8 screws and remove base 2.</p> <p>2)Take out 4 screws and remove base 1.</p>	 <p>The photo shows the bottom of the unit with 8 screws being removed from the base plate.</p>

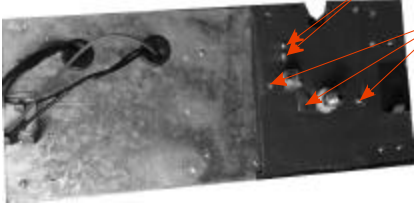
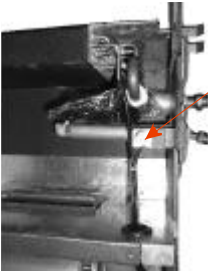

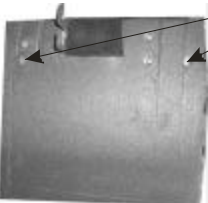

9. DISASSEMBLY INSTRUCTIONS

ADM-24UX4SGKA

OPERATION PROCEDURE	PHOTOS
	 <p>Base 2</p> <p>Base 1</p> <p>Screws</p>
<p>5. Remove the connecting plate parts .</p> <p>1) Take out 2 screws above the side panel.</p> <p>2) Take out 4 screws on the connecting plate, remove the connecting plate .</p> <p>3) Take out 4 screws on the other side panel, remove the connecting plate .</p>	 <p>Connecting plate</p>  <p>Screws</p> <p>Screws</p> <p>Screws</p>
<p>6. Remove the gullet .</p>	 <p>Gullet</p>

9. DISASSEMBLY INSTRUCTIONS

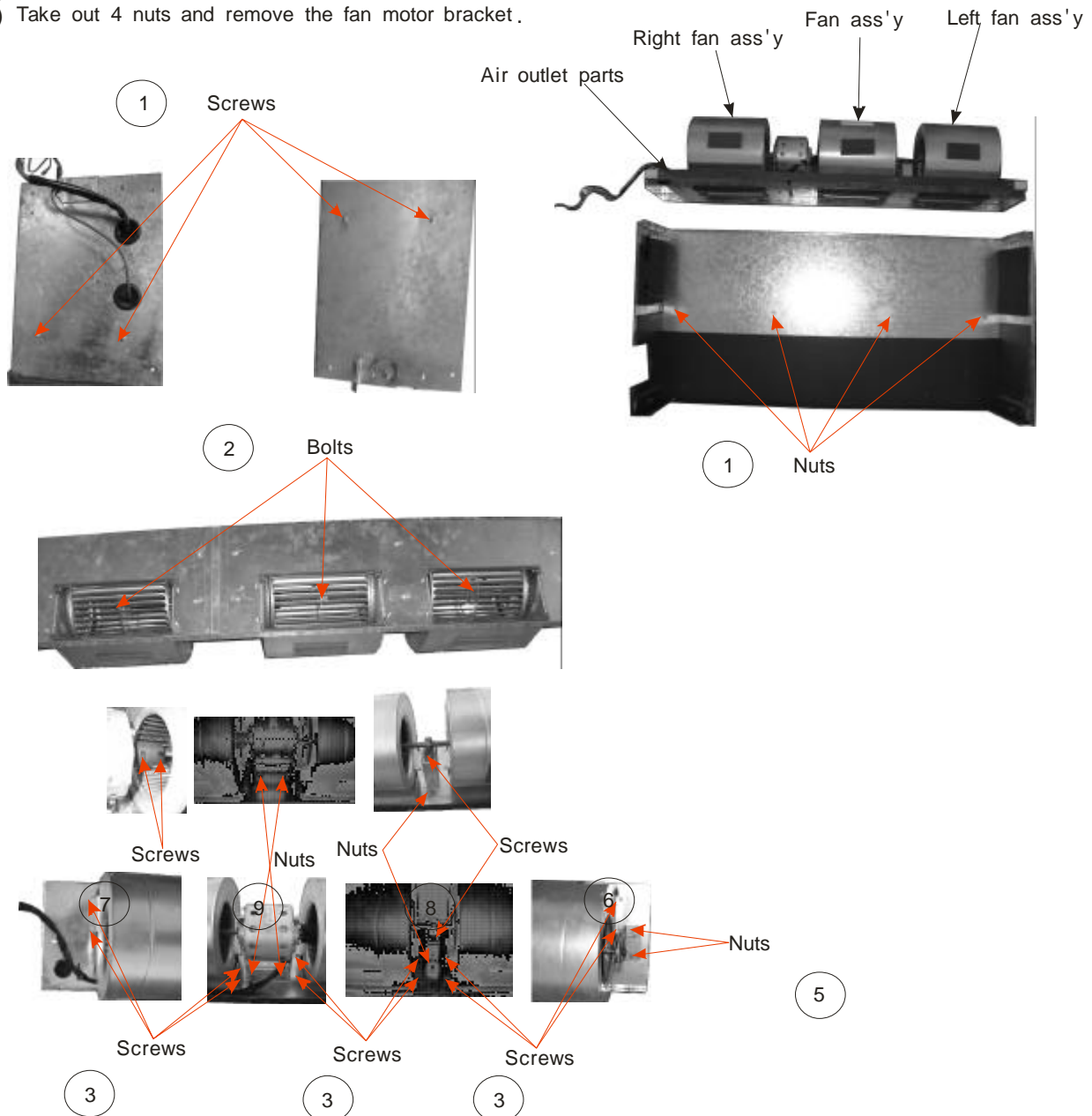
ADM-24UX4SGKA

OPERATION PROCEDURE	PHOTOS
<p>7. Remove the side panel parts .</p> <p>1) Take out the 2 screws on the side panel, remove the fixed plate liquid level detector .</p> <p>2) Take out 3 screws and remove the side panel.</p>	 <p>Screws</p> <p>Screws</p>  <p>Dobber switch</p>  <p>Side panel</p>
<p>8. Take out 4 screws on the both sides,remove the evaporator ass'y .</p>	 <p>Screws</p>  <p>Evaporator ass'y</p>

OPERATION PROCEDURE AND PHOTOS

9. Disassemble the air outlet parts.

- 1) Take out 4 screws of the air outlet parts on the both sides, and take out 4 nuts on the base, and remove the air outlet parts.
- 2) Take out the 3 bolts in the fan ass'y respectively.
- 3) Take out 4 screws of every one fan ass'y. The 3 fan ass'y have 12 screws in number.
- 4) Remove the right fan ass'y.
- 5) Take out 2 nuts on the support plate, remove the support plate, and remove the left fan ass'y.
- 6) Take out 2 screws, remove the axletree cover.
- 7) Take out 2 screws on the axletree connector, remove the fan motor axis and axletree connector.
- 8) Take out 2 nuts and remove the axletree bracket.
- 9) Take out 4 nuts and remove the fan motor bracket.



10. remove the top panel.

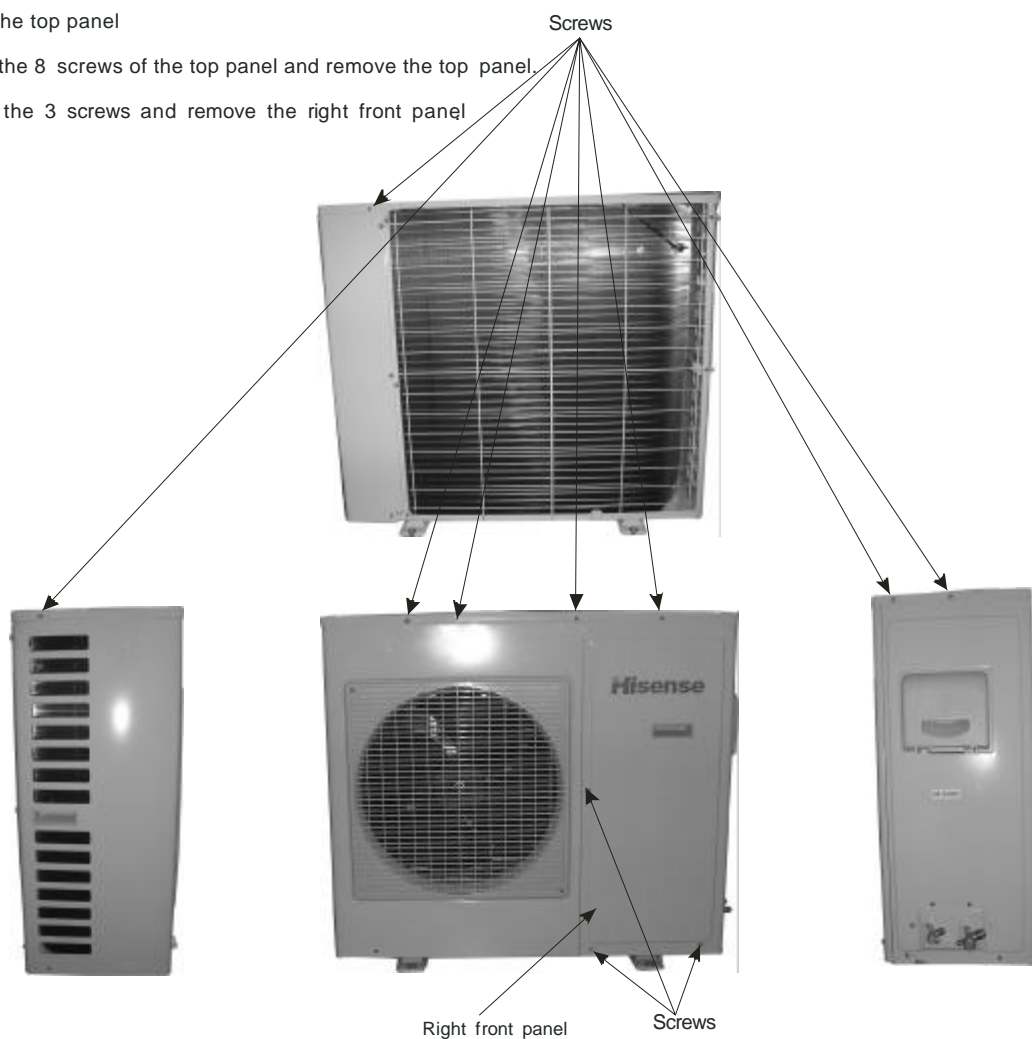
9-2. Outdoor

OPERATION PROCEDURE AND PHOTOS

1. Remove the top panel

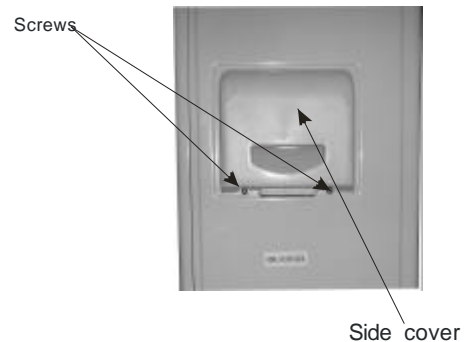
1) Take out the 8 screws of the top panel and remove the top panel.

2) Take out the 3 screws and remove the right front panel



2 . Remove the side cover.

1) Take out the 2 screws of the side cover and remove the side cover.



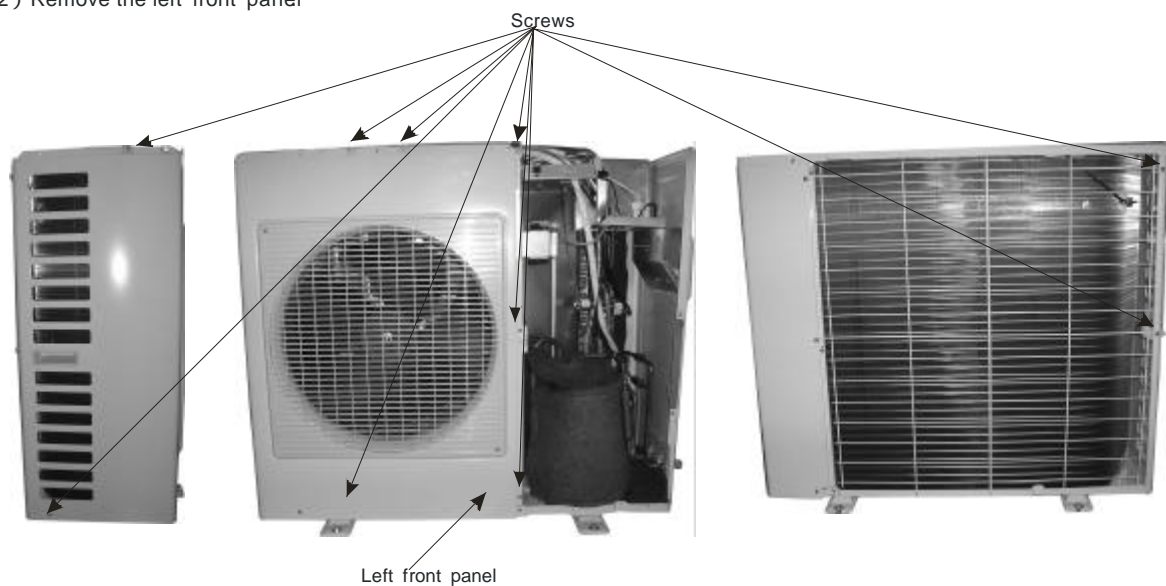
9. DISASSEMBLY INSTRUCTIONS

ADM-24UX4SGKA

3. Remove the left front panel

1) Take out the 10 screws of the left front panel.

2) Remove the left front panel

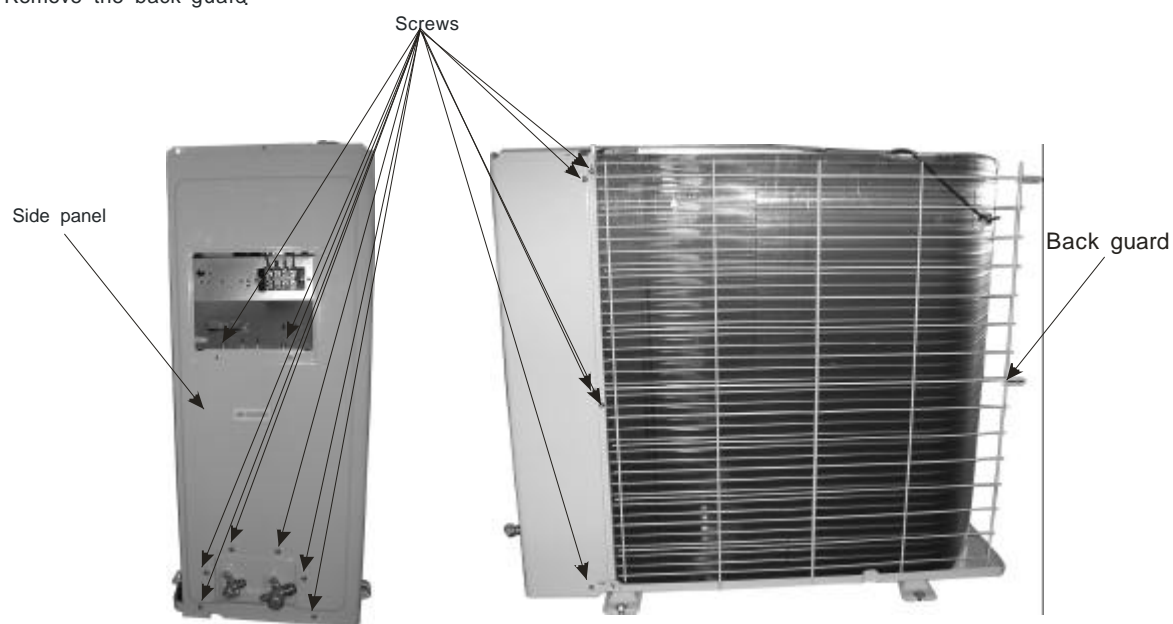


4. Remove the side panel and back guard

1) Take out the 8 screws of the side panel.

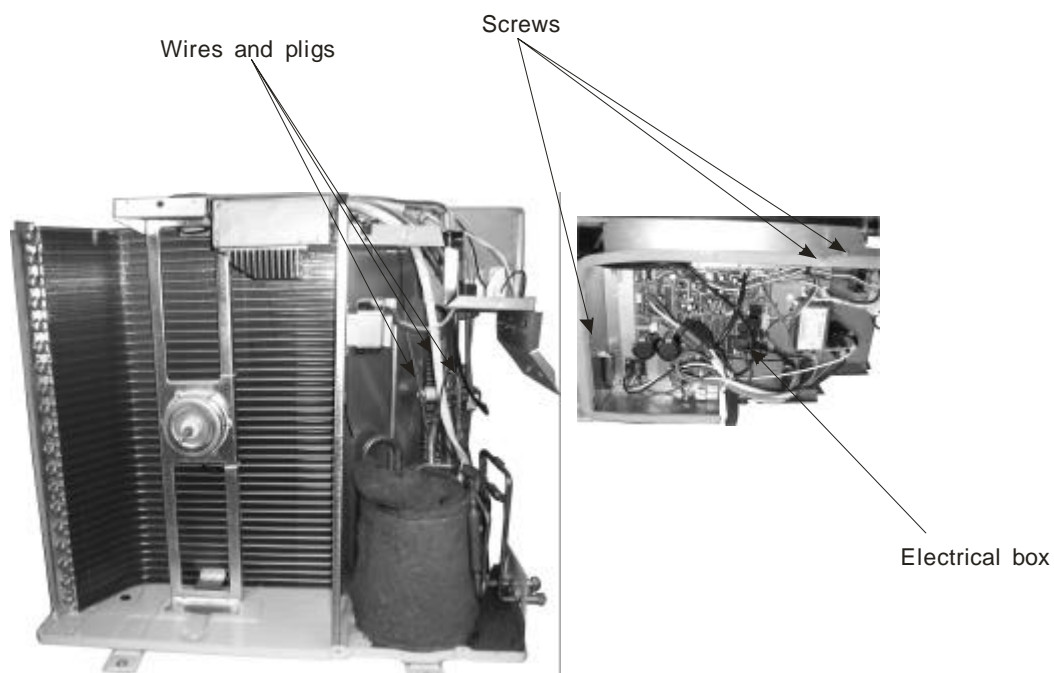
2) Remove the side panel

3) Remove the back guard



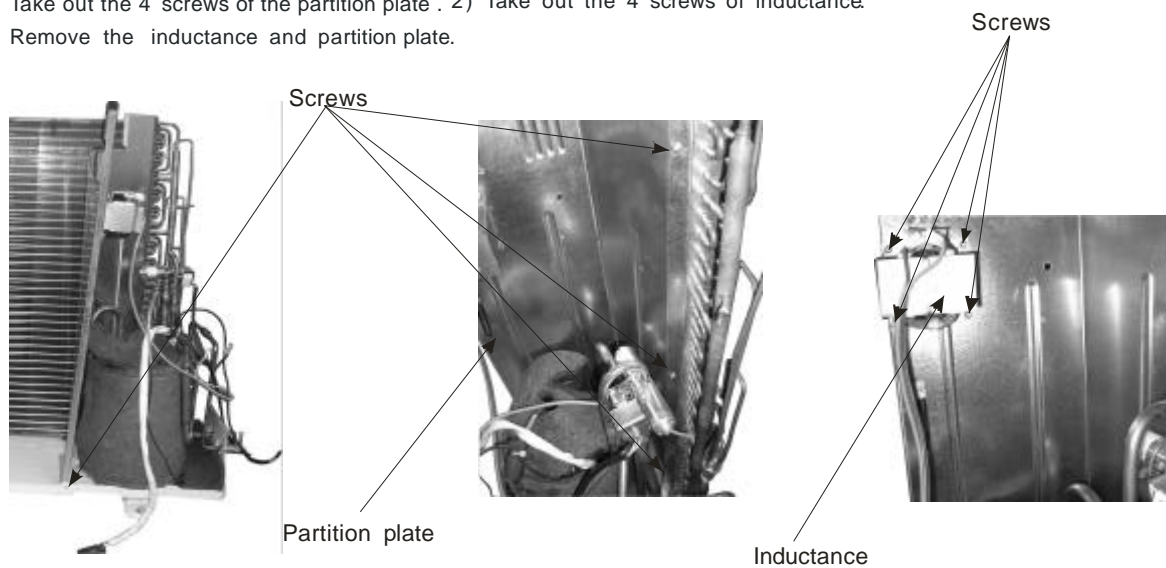
5. Remove the electrical control box

- 1) Take out the 3 screws of the electrical box .
- 2) Disconnect all the wires and plugs in the electrical control box and the other parts.
- 3) Remove the electrical control box



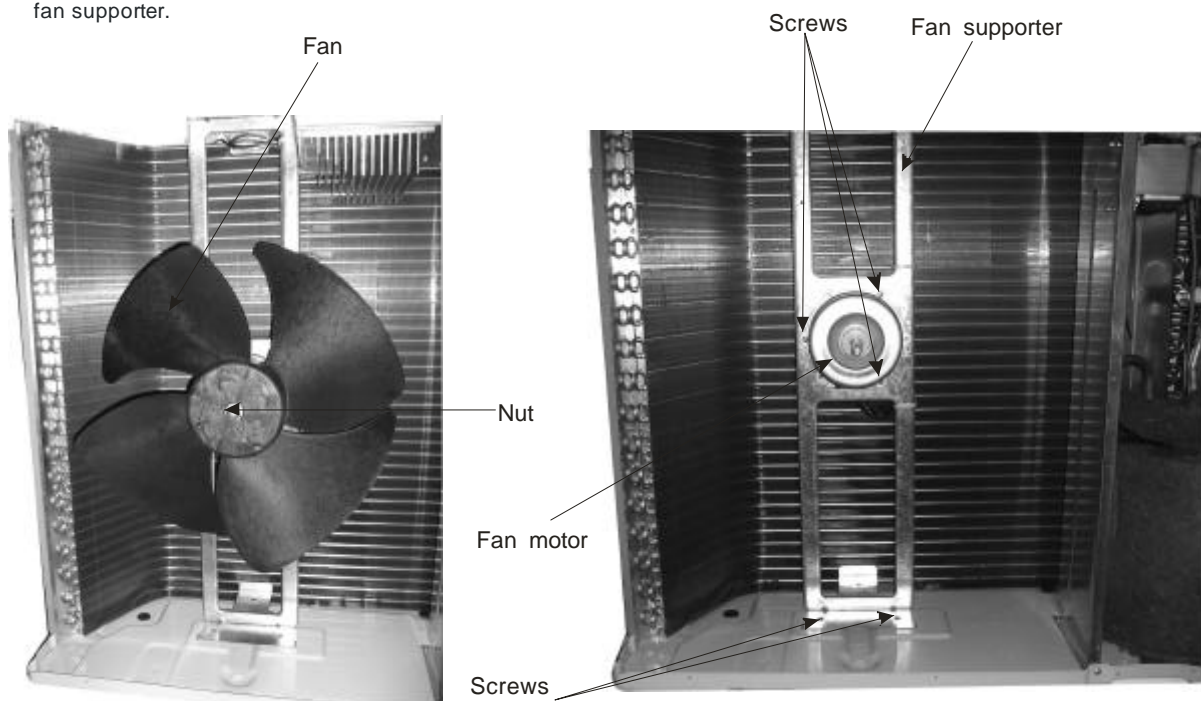
6. Remove the partition plate .

- 1) Take out the 4 screws of the partition plate .
- 2) Take out the 4 screws of inductance.
- 3) Remove the inductance and partition plate.



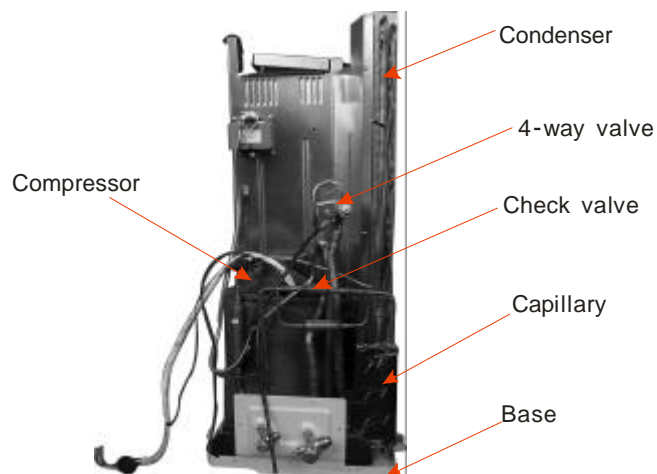
5. Remove the fan ,fan motor and fan supporter .

- 1) Take out the special nut of the fan and remove the fan.
- 2) Take out the 3 screws of the fan motor and remove the fan motor.
- 3) Take out the 2 screws of the fan supporter and remove the fan supporter.



8 . Check-up the other parts of the outdoor units

- 1) Check-up the condenser ass'y.
- 2) Check-up the compressor ass'y.
- 3) Check-up the base ass'y.
- 4) Check-up the 4 way valve , capillary tube and check valve.

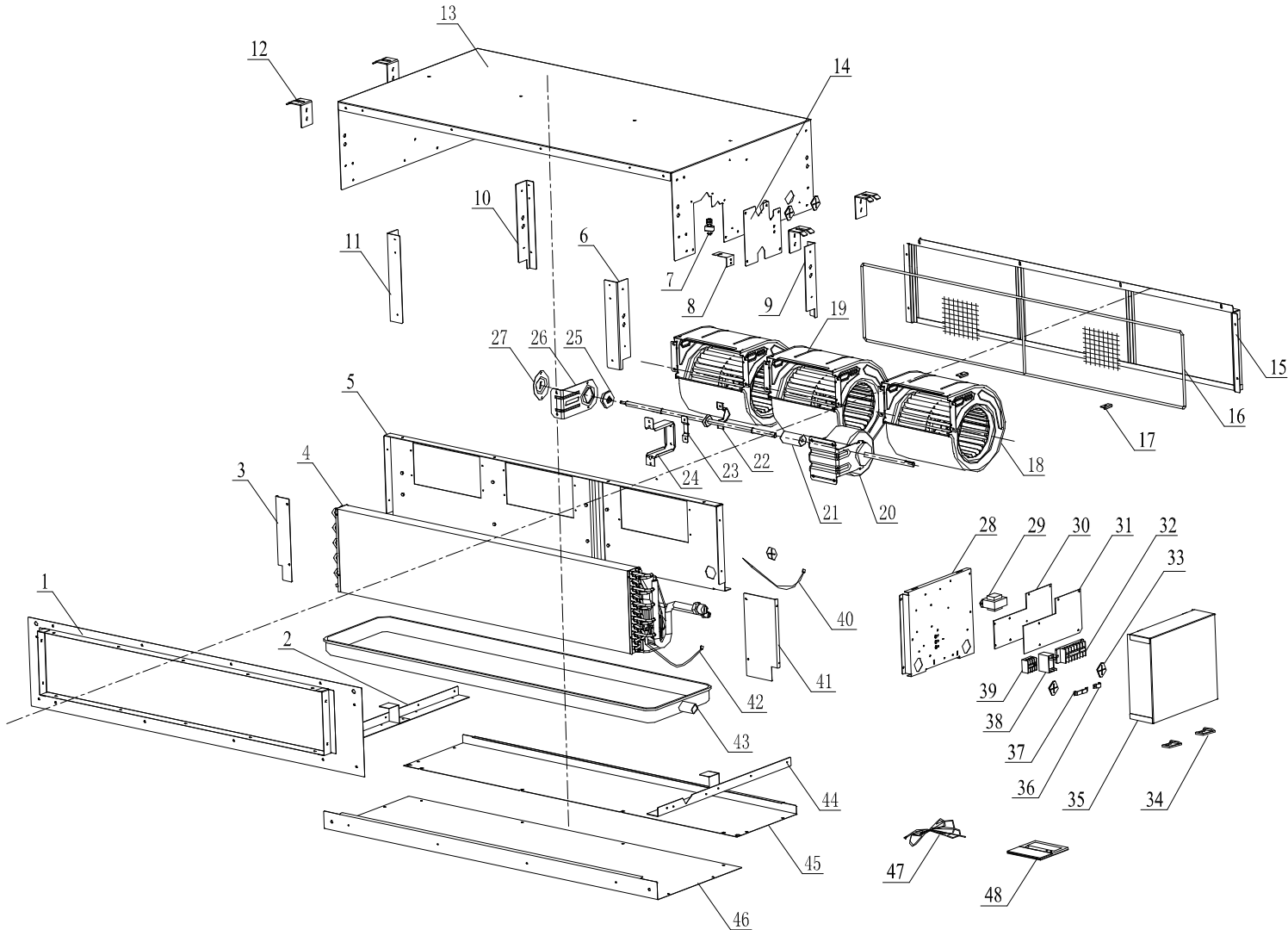


10. PARTS LIST	ADM-24UX4SGKA
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ADM-24UX4SGKA

10-1. Indoor

1. Parts



10. PARTS LIST**ADM-24UX4SGKA****2. LIST**

Key No.	Part No.	Description	Q'ty
1	RZA-0-2223-001-XX-0	Air outlet parts	1
2	RZA-0-2362-152-XX-0	Strengthen plate ass'y	1
3	RZA-2-2362-155-XX-0	Connecting plate	1
4	RZA-0-4116-425-XX-0	Evaporator ass'y	1
5	RZA-0-2362-151-XX-0	Strengthen plate ass'y	1
6	RZA-0-2362-147-XX-0	Strengthen plate ass'y	1
7	RZA-0-5319-008-XX-0	Water lever switch	1
8	RZA-0-2205-002-XX-0	Mounting plate ass'y	1
9	RZA-0-2362-149-XX-0	Strengthen plate ass'y	1
10	RZA-0-2362-150-XX-0	Strengthen plate ass'y	1
11	RZA-0-2362-148-XX-0	Strengthen plate ass'y	1
12	RZA-2-2316-011-XX-0	Mounting plate	4
13	RZA-0-2270-018-XX-0	Upper board parts	1
14	RZA-2-1114-023-XX-0	Side panel	1
15	RZA-0-2223-002-XX-0	Air inlet parts	1
16	RZA-0-2307-018-XX-0	Air Filter ass'y	1
17	RZA-2-5304-100-XX-0	Connecting plate	2
18	RZA-0-2204-017-XX-0	Ventilator	1
19	RZA-0-2204-015-XX-0	Ventilator	2
20	RZA-0-0000-230-XX-0	Fan motor	1
21	RZA-2-1514-088-XX-0	Axes ring	1
22	RZA-2-2369-134-XX-0	Cover	1
23	RZA-2-2517-003-XX-0	Bearing pedestal	1
24	RZA-2-2219-107-XX-0	Mounting plate	1
25	RZA-0-2510-106-XX-1	Axletree	1
26	RZA-2-2219-106-XX-0	Mounting plate	1
27	RZA-2-2369-133-XXX-0	Cover	1
28	RZA-0-5301-121-XX-0	Elec joint box ass'y	1
29	RZA-0-5263-046-XX-0	Transformer	1

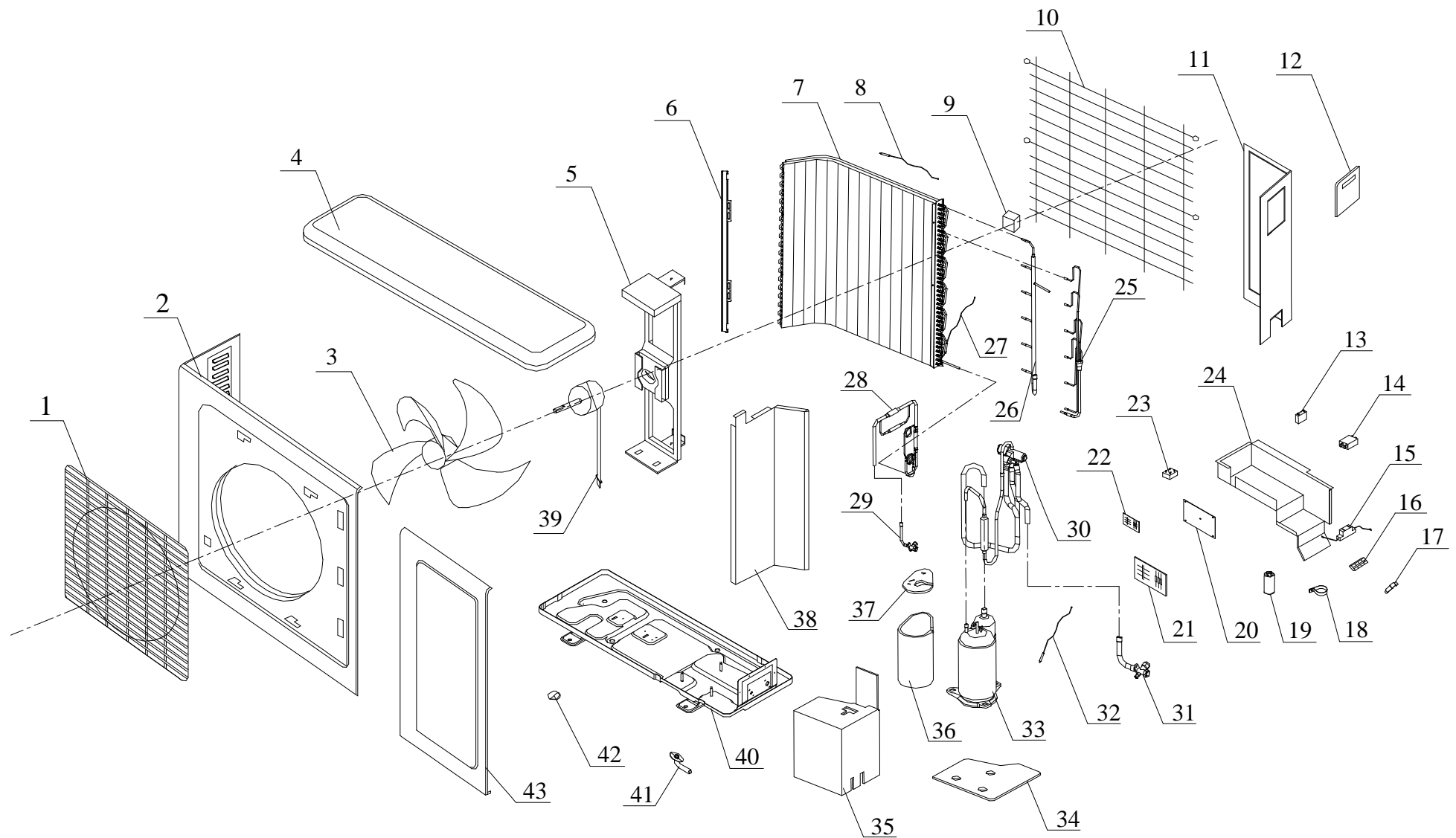
10. PARTS LIST**ADM-24UX4SGKA**

30	RZA-2-5328-078-XX-0	Gasket	1
31	RZA-0-5171-286-XX-0	Control board	1
32	RZA-0-5306-061-XX-1	Terminal panel	1
33	RZA-2-2397-009-XX-0	Rubber lid	5
34	RZA-2-2295-001-XX-0	Clamp	2
35	RZA-2-5315-084-XX-0	Elec joint box cover	1
36	RZA-0-5304-014-XX-0	Clamp	1
37	RZA-0-5304-021-XX-0	Clamp	1
38	RZA-0-2239-023-XX-0	Capacitor	1
39	4-2379-124-02-0	Terminal panel	1
40	RZA-0-5259-091-XX-0	Temperature sensor	1
41	RZA-2-2362-154-XX-0	Connecting plate	1
42	RZA-0-5259-106-XX-0	Temperature sensor	1
43	RZA-0-2287-003-XX-0	Gullet	1
44	RZA-0-2362-153-XX-0	Strengthen plate ass'y	1
45	RZA-2-1109-061-XX-0	Upper board	1
46	RZA-2-1109-060-XX-0	Upper board	1
47	4-5250-325-28-A	Power cable	1
48	RZA-0-1506-011-XX-0	Wiring remote controller ass'y	1

10-2. outdoor**1. Parts**

10. PARTS LIST

ADM-24UX4SGKA



10. PARTS LIST**ADM-24UX4SGKA****2. Llist**

Key No.	Part No.	Description	Q'ty
1	RZA-0-1321-003-XX-0	Fan Guard Ass'y	1
2	RZA-2-1112-004-XX-0	Front Panel	1
3	RZA-2-2502-001-XX-0	Outside Fan	1
4	RZA-0-2309-012-XX-0	Top Cover Ass'y	1
5	RZA-0-2506-003-XX-1	Fan Supporter Ass'y	1
6	RZA-0-2362-068-XX-0	Fixture Brace Ass'y	1
7	RZA-0-4102-562-XX-0	Condenser Ass'y	1
8	RZA-0-5259-091-XX-0	Temperature Sensor	1
9	RZA-2-2431-005-XX-0	Rubber Block	1
10	RZA-0-1111-001-XX-2	Back Guard	1
11	RZA-0-1104-004-XX-0	Right Side Panel Ass'y	1
12	RZA-0-5302-007-XX-0	Side Cover Ass'y	1
13	RZA-0-2239-023-XX-0	Fan Capacitor	1
14	RZA-0-5220-017-XX-0	Filter (EMC)	1
15	RZA-0-2216-002-XX-0	Fuse Bracket	1
16	RZA-0-5306-005-XX-0	Terminal Board	1
17	RZA-2-5304-003-XX-1	Clamp	1
18	RZA-2-5301-002-XX-0	Capacitory Clip	1
19	RZA-4-2239-010-XX-0	Capacitor	1
20	RZA-2-5328-063-XX-1	Gasket	1
21	RZA-0-5171-285-XX-0	Control block Ass'y	1
22	RZA-0-5171-213-XX-0	Control block Ass'y	1
23	RZA-0-5331-004-XX-0	Rectifier Bridge	1
24	RZA-0-5301-034-02-3	Electrical Box Ass'y	1
25	RZA-0-4206-944-XX-0	Pipe Ass'y	1
26	RZA-0-4206-945-XX-0	Pipe Ass'y	1
27	RZA-0-5259-106-XX-0	Temperature Sensor	1
28	RZA-0-4206-947-XX-0	Capillary Tube Ass'y	1
29	RZA-0-4501-087-XX-0	3/8 Valve Ass'y	1

10. PARTS LIST			ADM-24UX4SGKA
30	RZA-0-4525-251-XX-0	4-Way Valve Ass'y	1
31	RZA-0-4501-088-XX-0	5/8 Valve Ass'y	1
32	RZA-0-5259-090-XX-0	Temperature Sensor	1
33	RZA-0-4526-172-XX-0	Compressor Ass'y	1
34	RZA-2-2476-180-XX-0	Sound Insulation Pad	1
35	RZA-2-2476-183-XX-0	Sound Insulation Pad	1
36	RZA-2-2476-181-XX-0	Sound Insulation Pad	1
37	RZA-2-2476-182-XX-0	Sound Insulation Pad	1
38	RZA-0-2202-075-XX-0	Partition Support Plate	1
39	RZA-0-0000-057-XX-1	Fan Motor	1
40	RZA-0-2202-184-XX-0	Base Ass'y	1
41	RZA-2-2228-002-XX-0	Drainage Elbow	1
42	852-2-2350-111-00-2	Rubber Lid	2
43	RZA-0-1112-007-XX-0	Right Panel Ass'y	1